

GOLD
KEY

THE JETSONS

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JANUARY

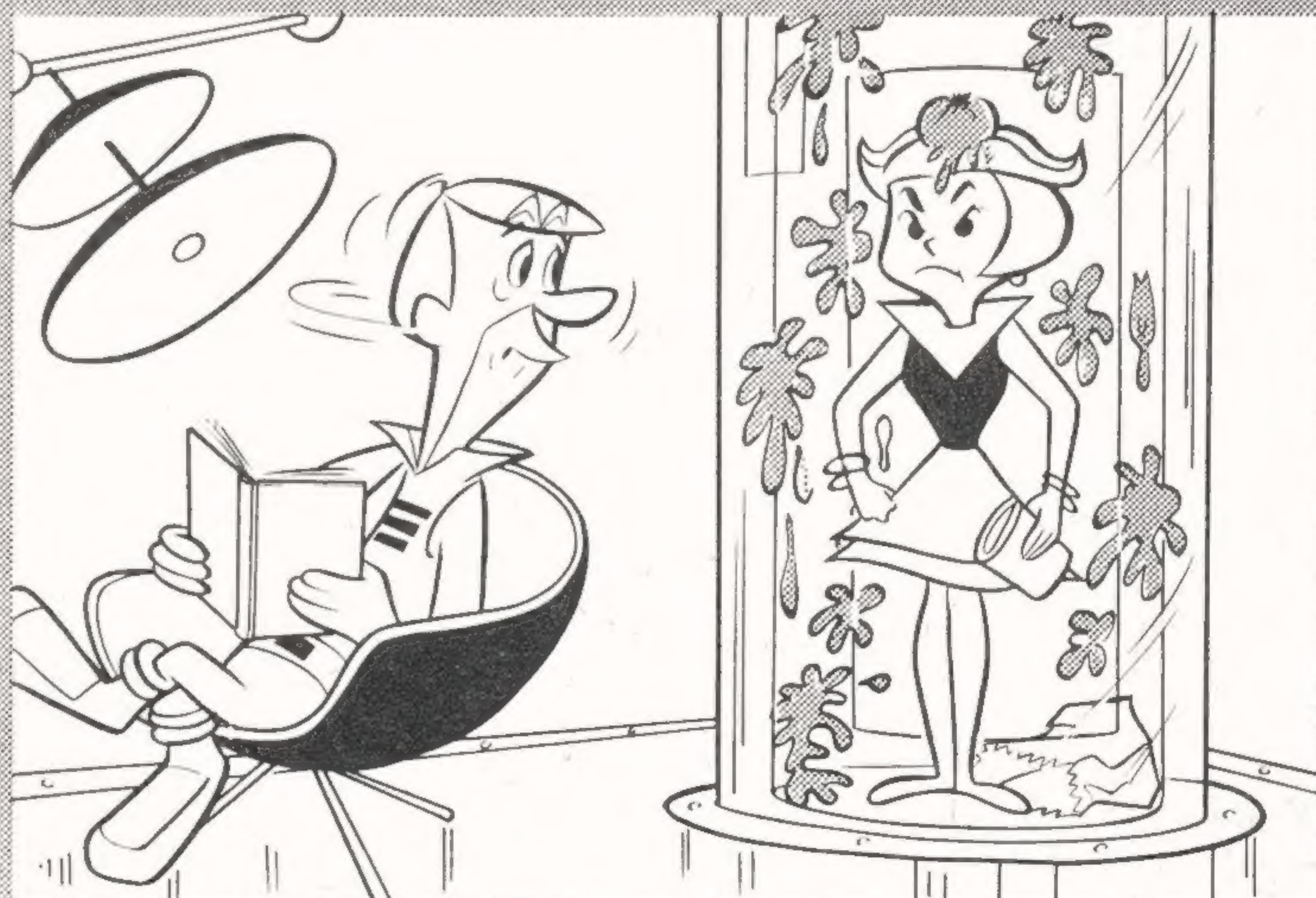
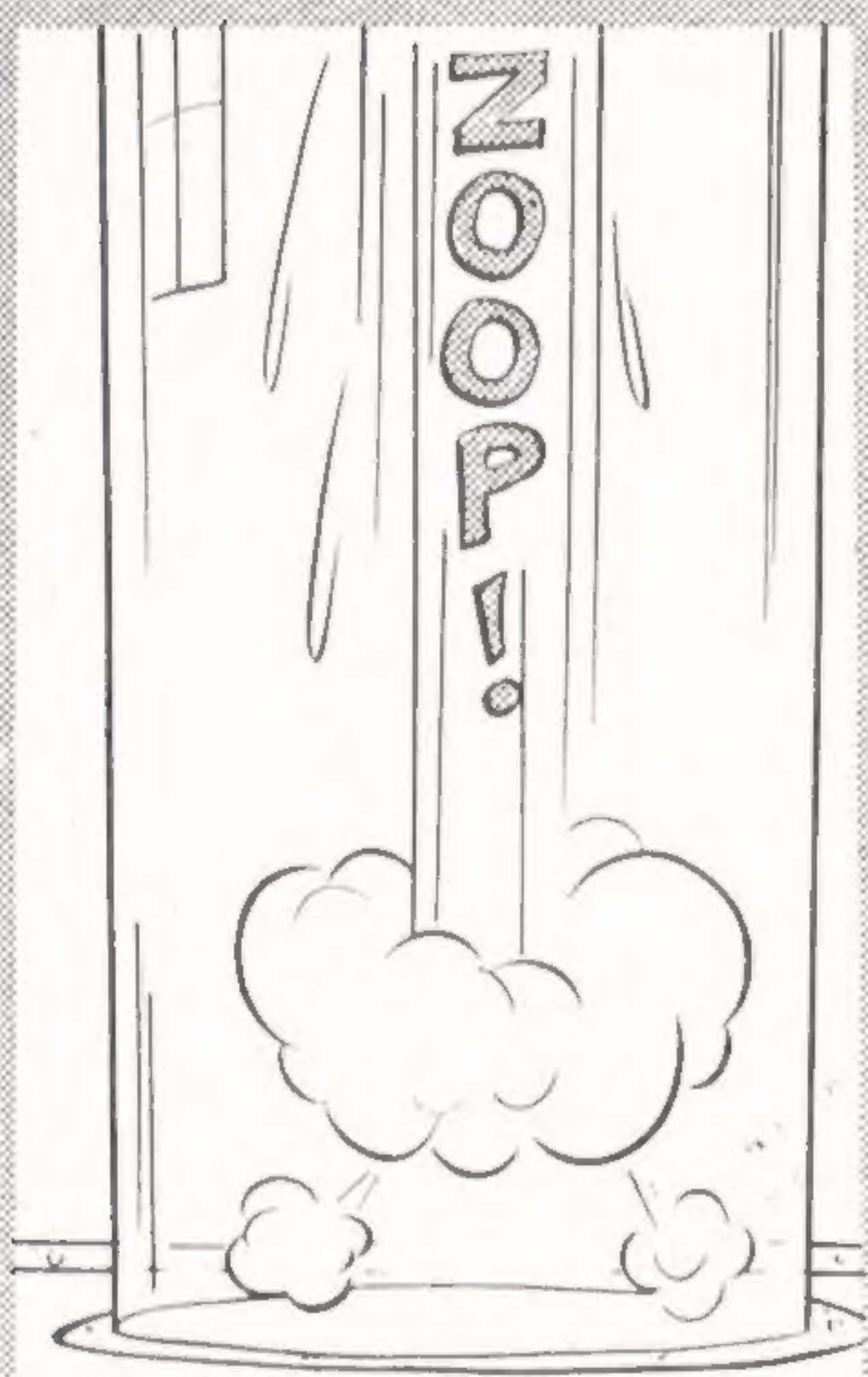
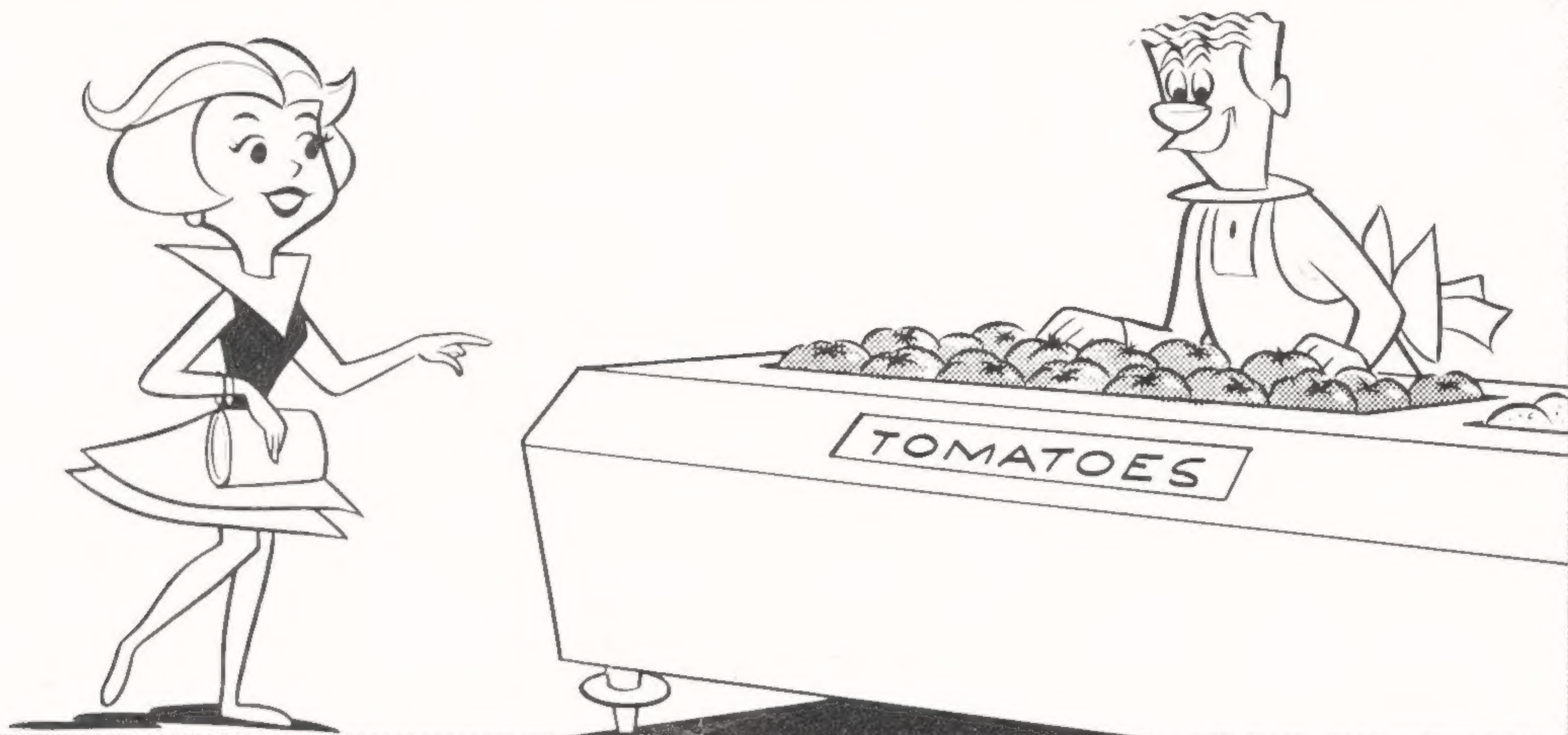
The JETSONS



by HANNA-BARBERA

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THE JETSONS

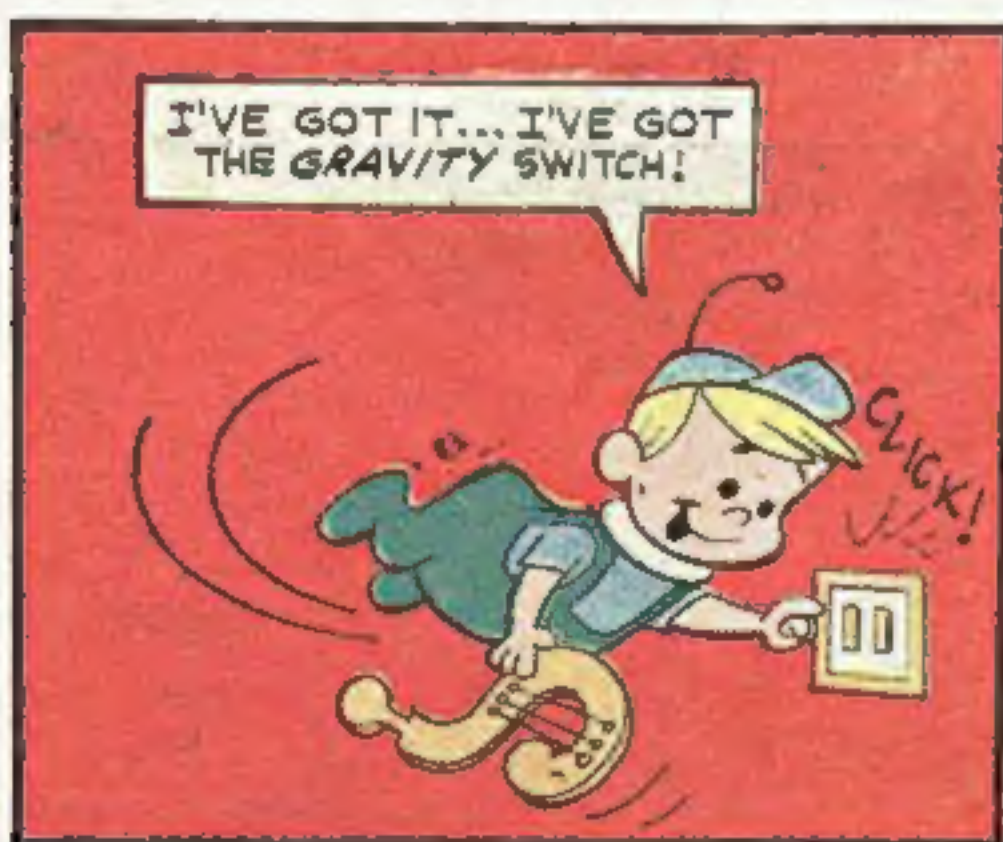


Hanna-Barbara

the JETSONS

TIME: SATURDAY, 2062-A.D.
PLACE: SKY PAD6 APARTMENT,
EARTH.

THE JETSON FAMILY IS REALLY
ALL "UP-IN-THE-AIR"... AND GUESS
WHOSE FAULT IT IS...

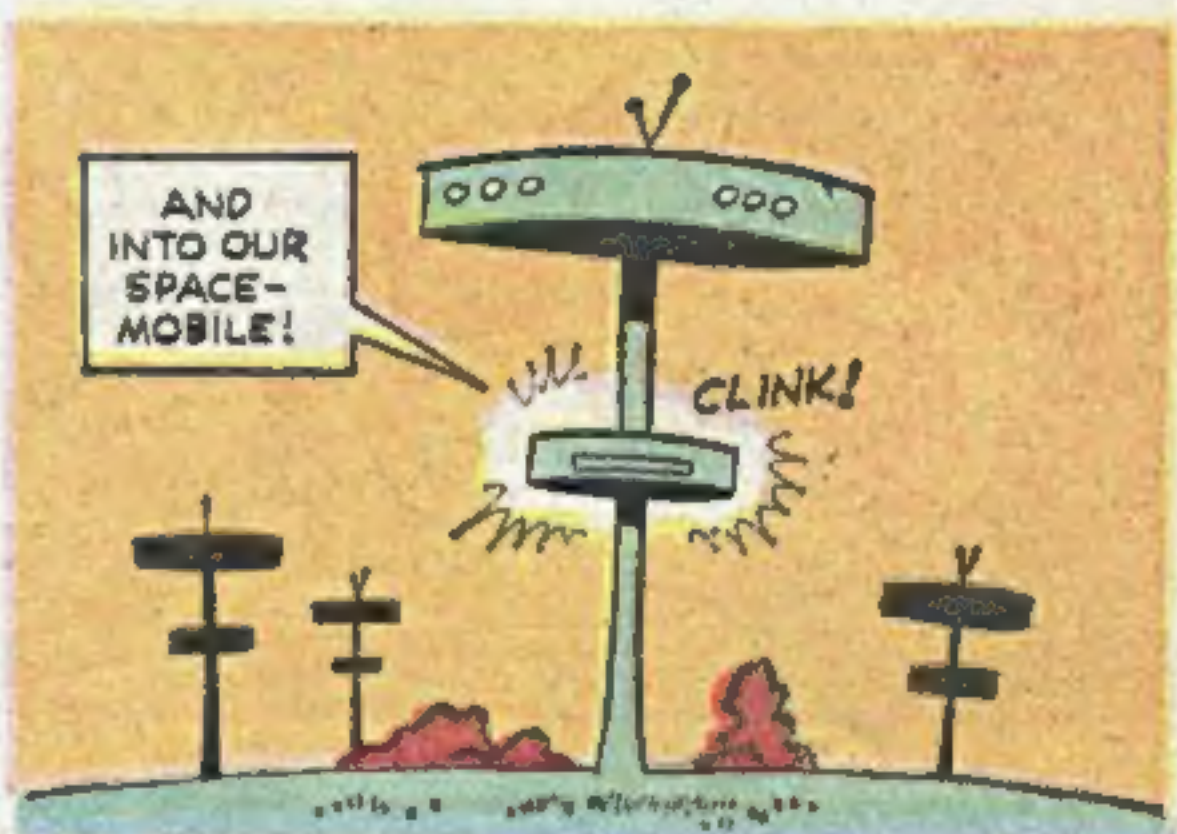


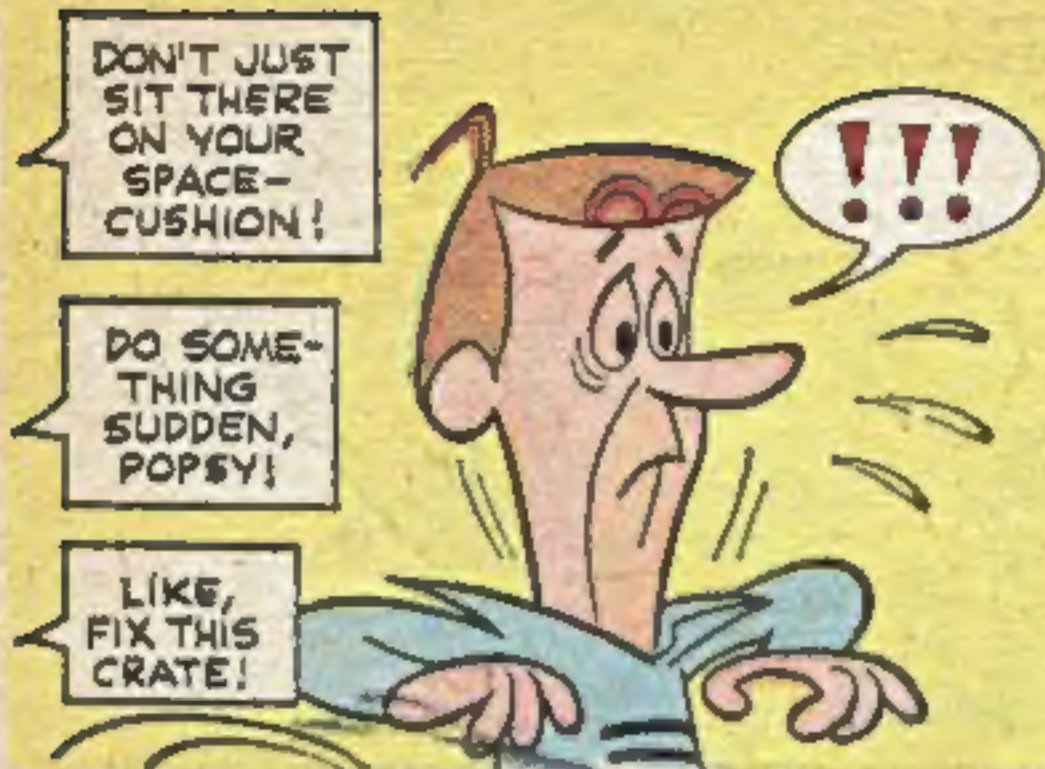
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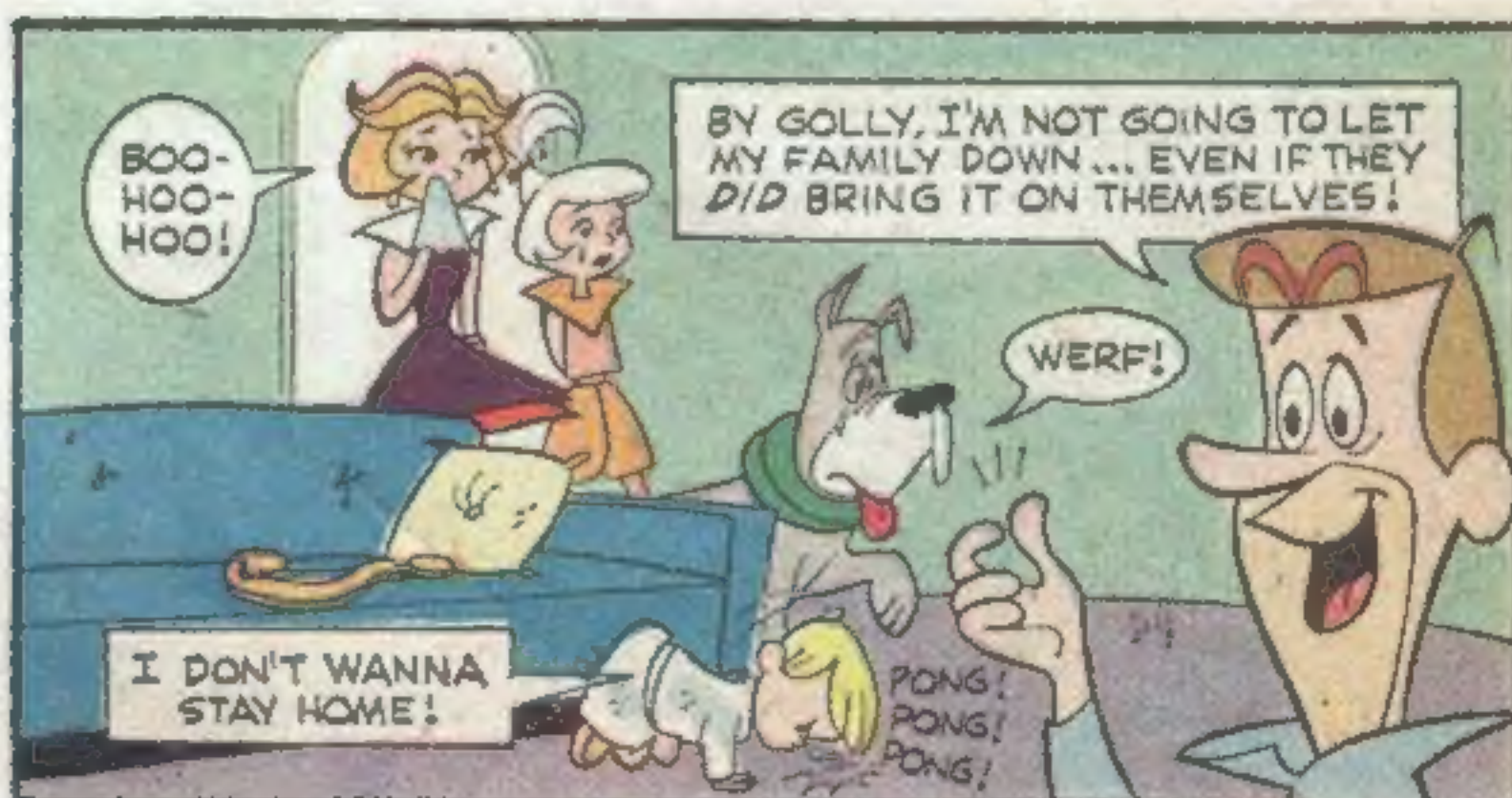
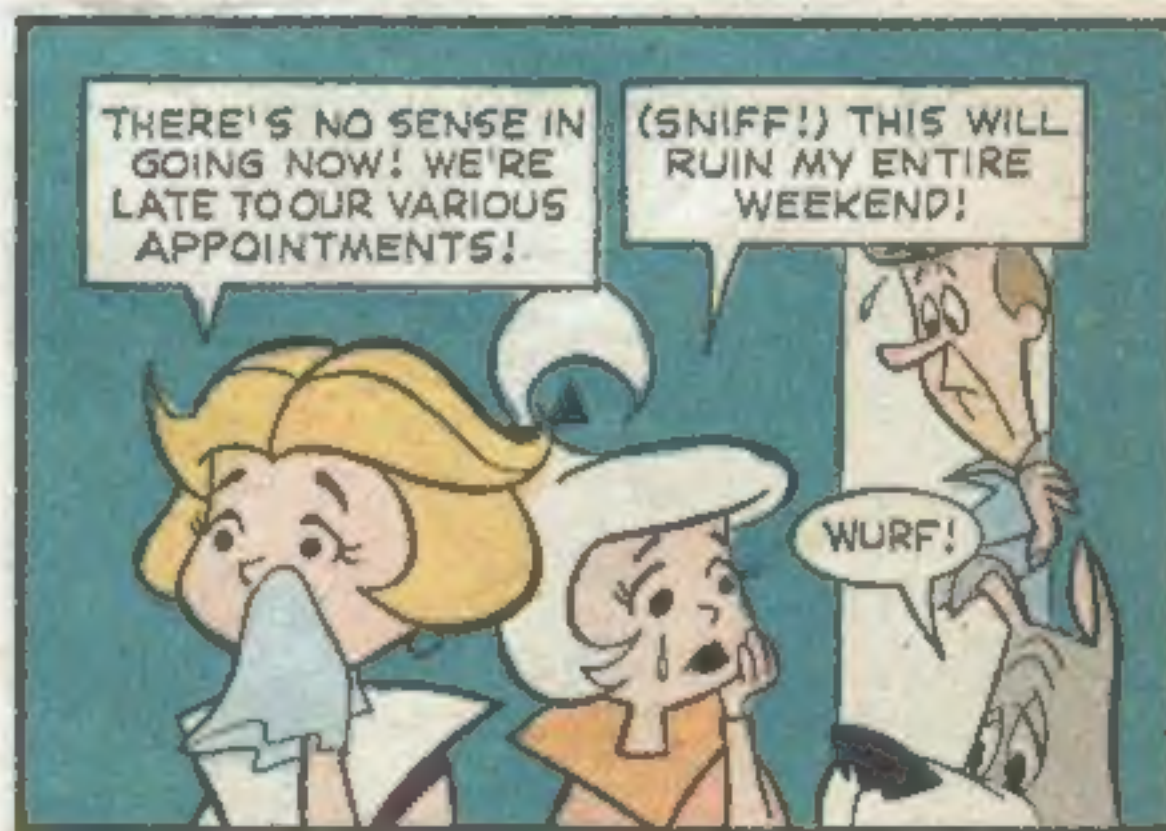


THE JETSONS #1-6210

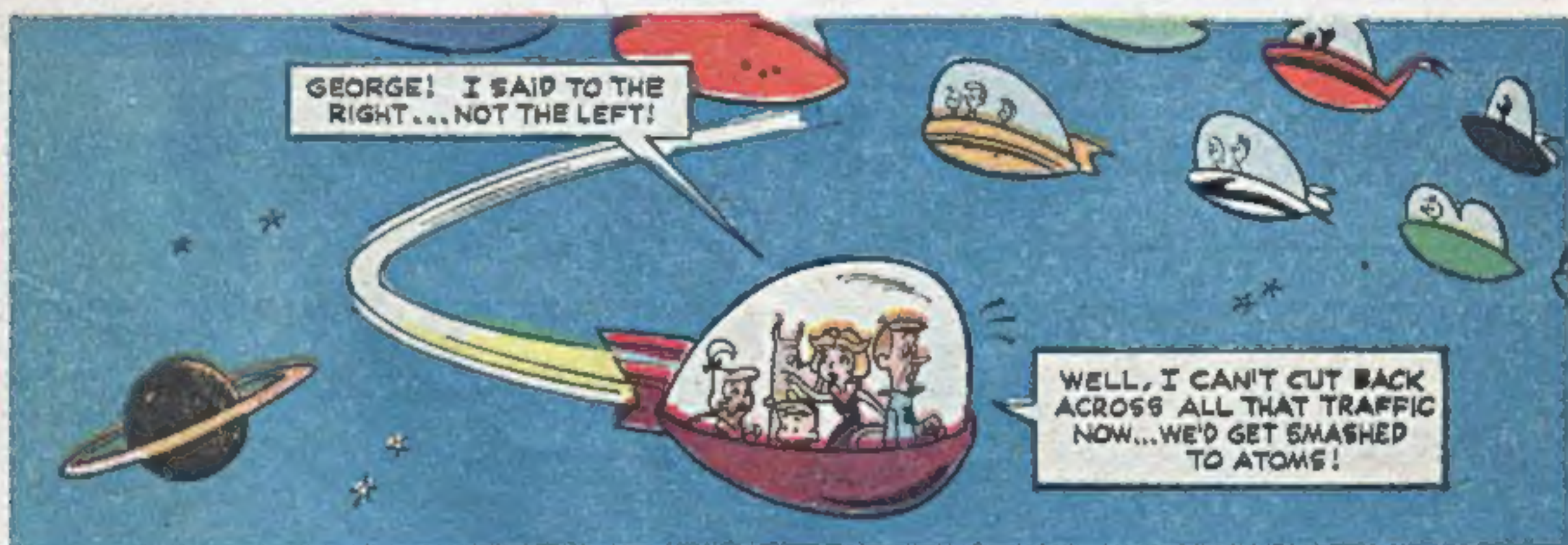
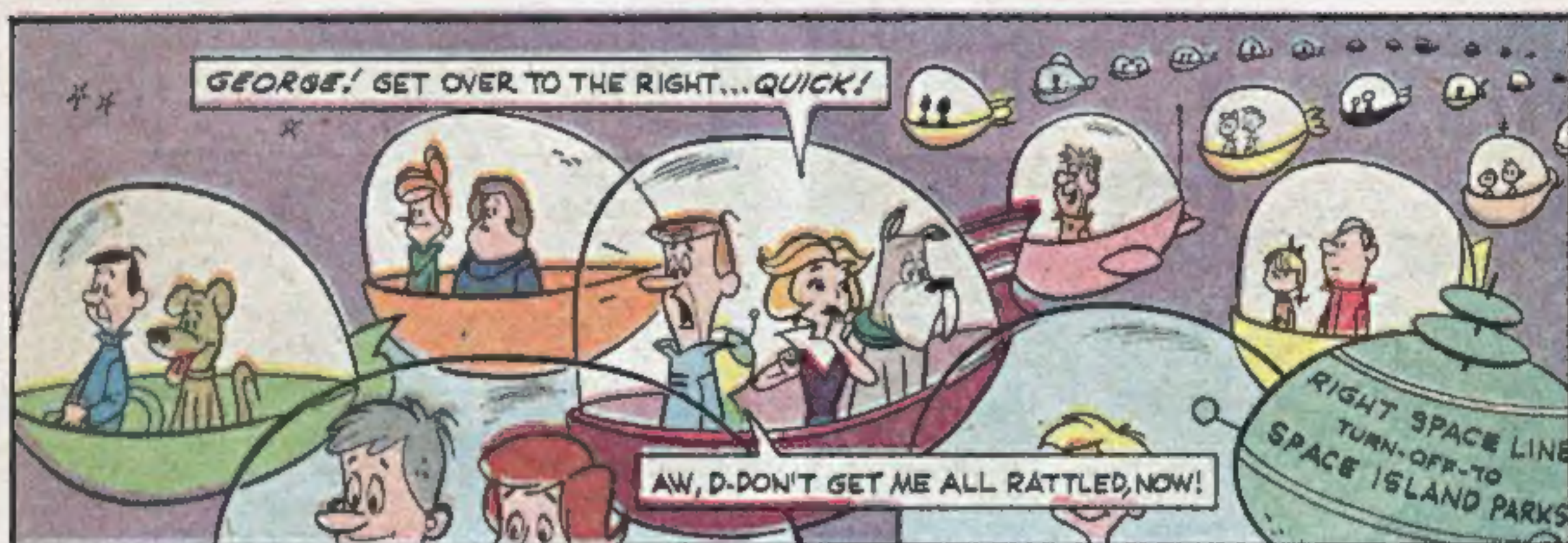
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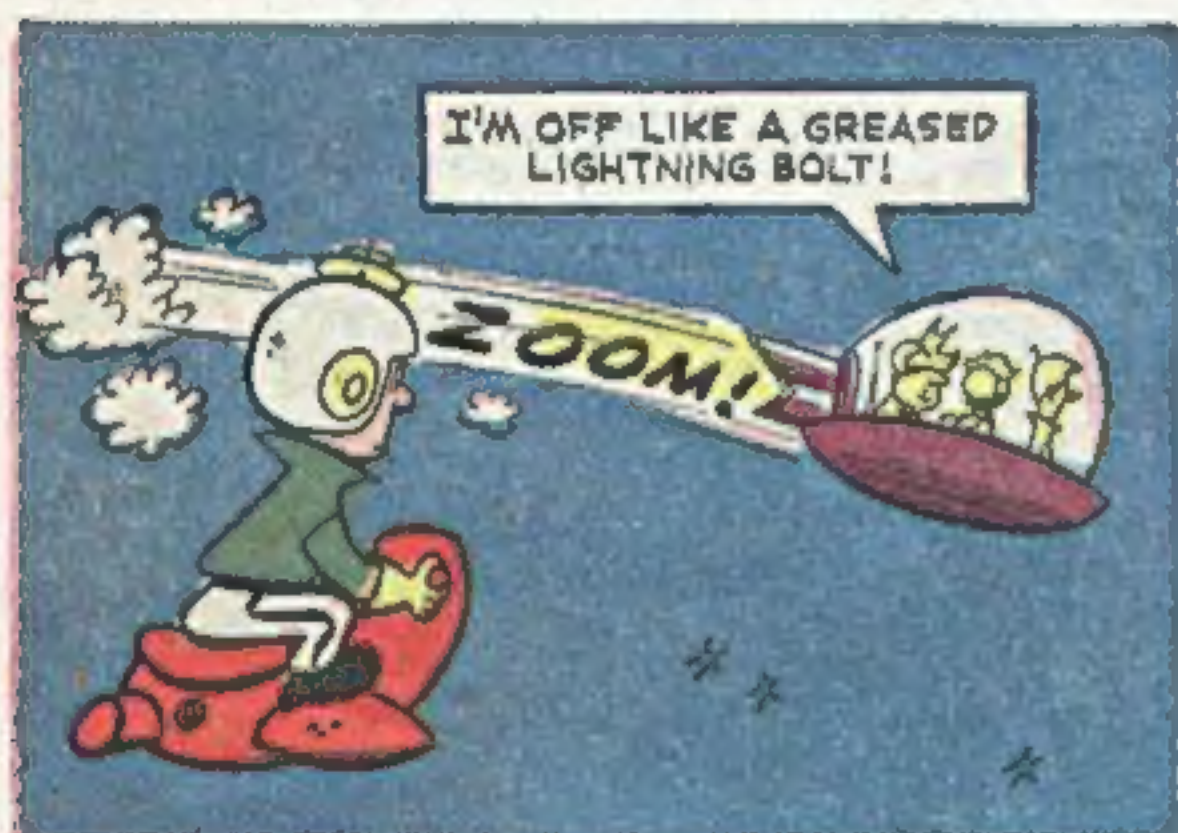
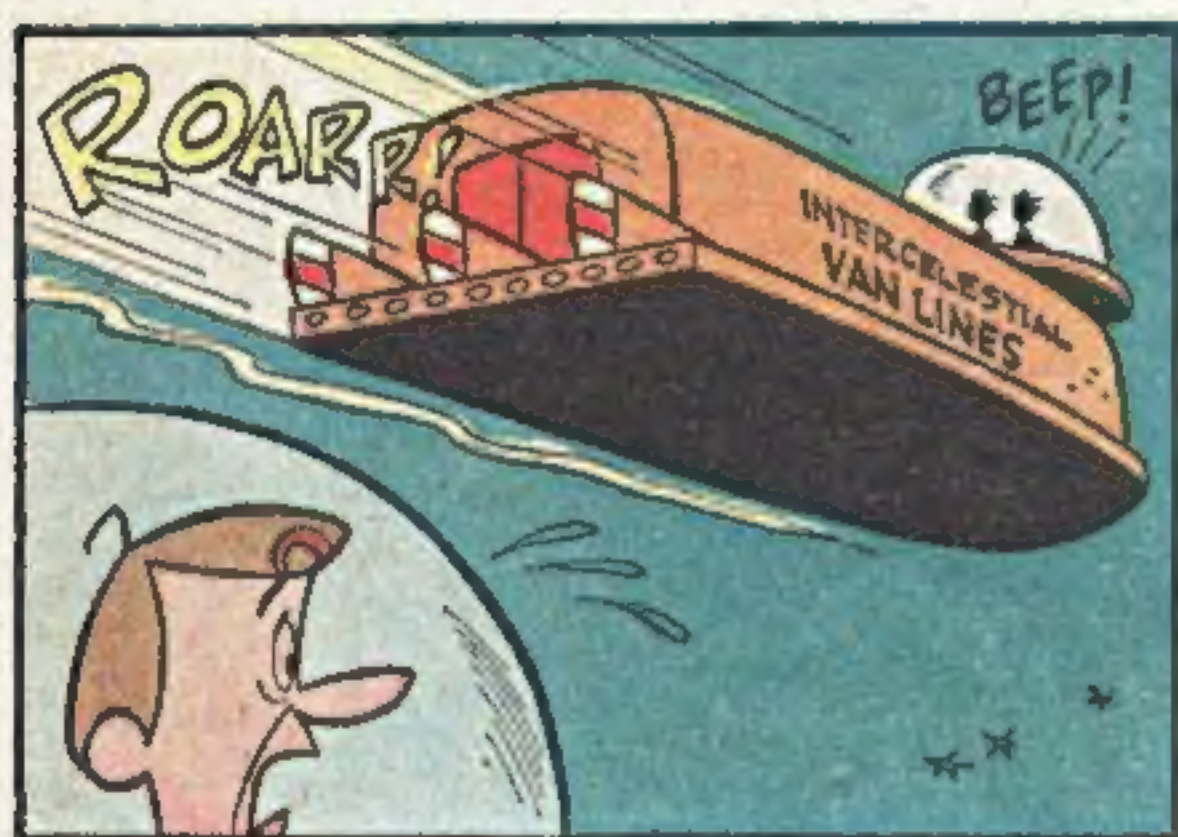


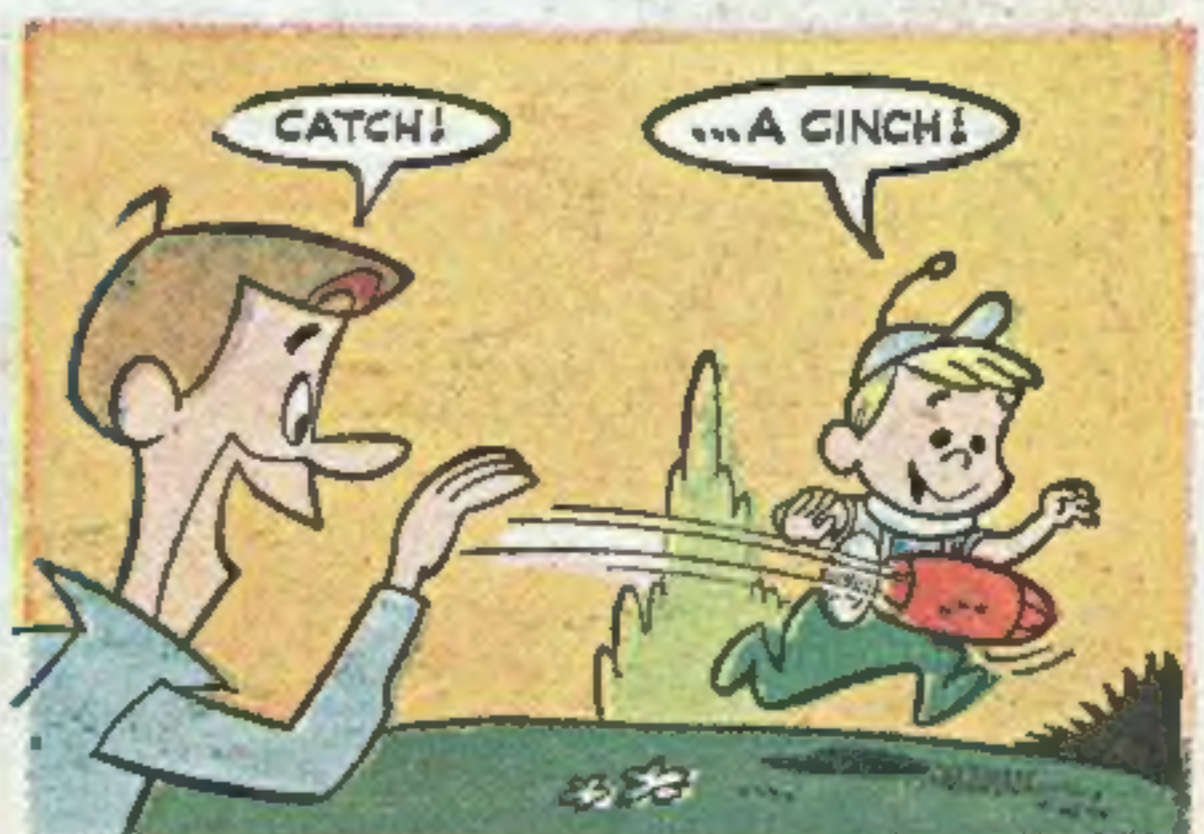
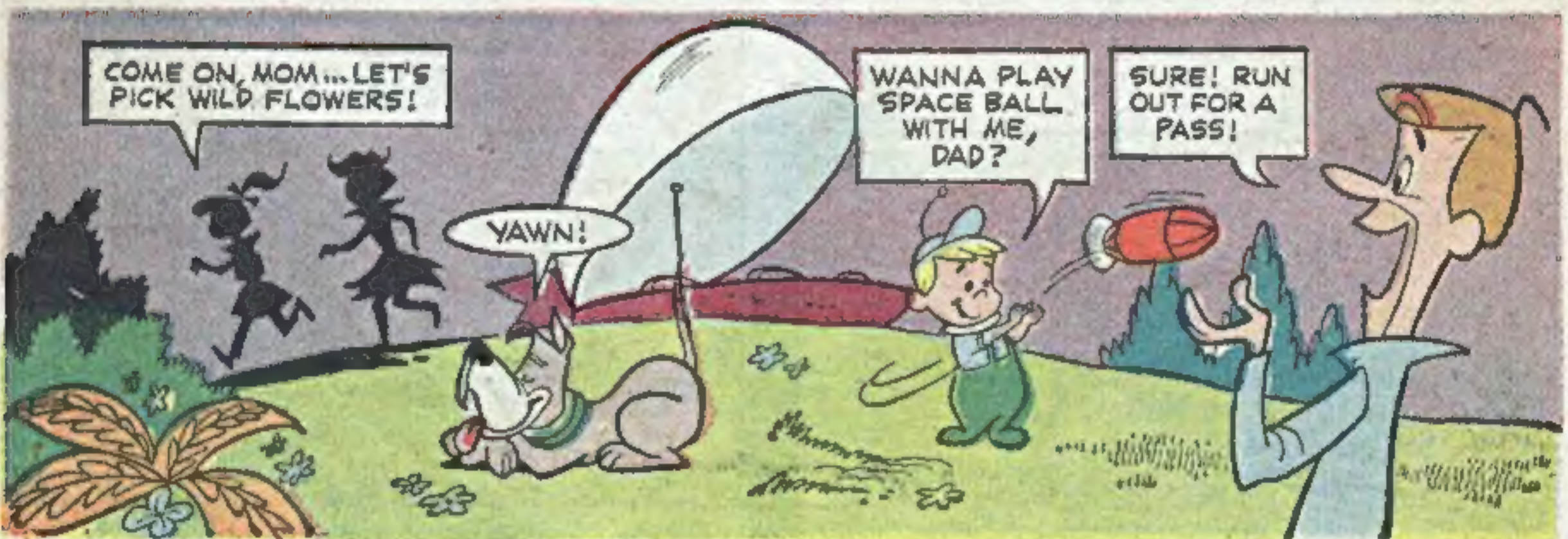
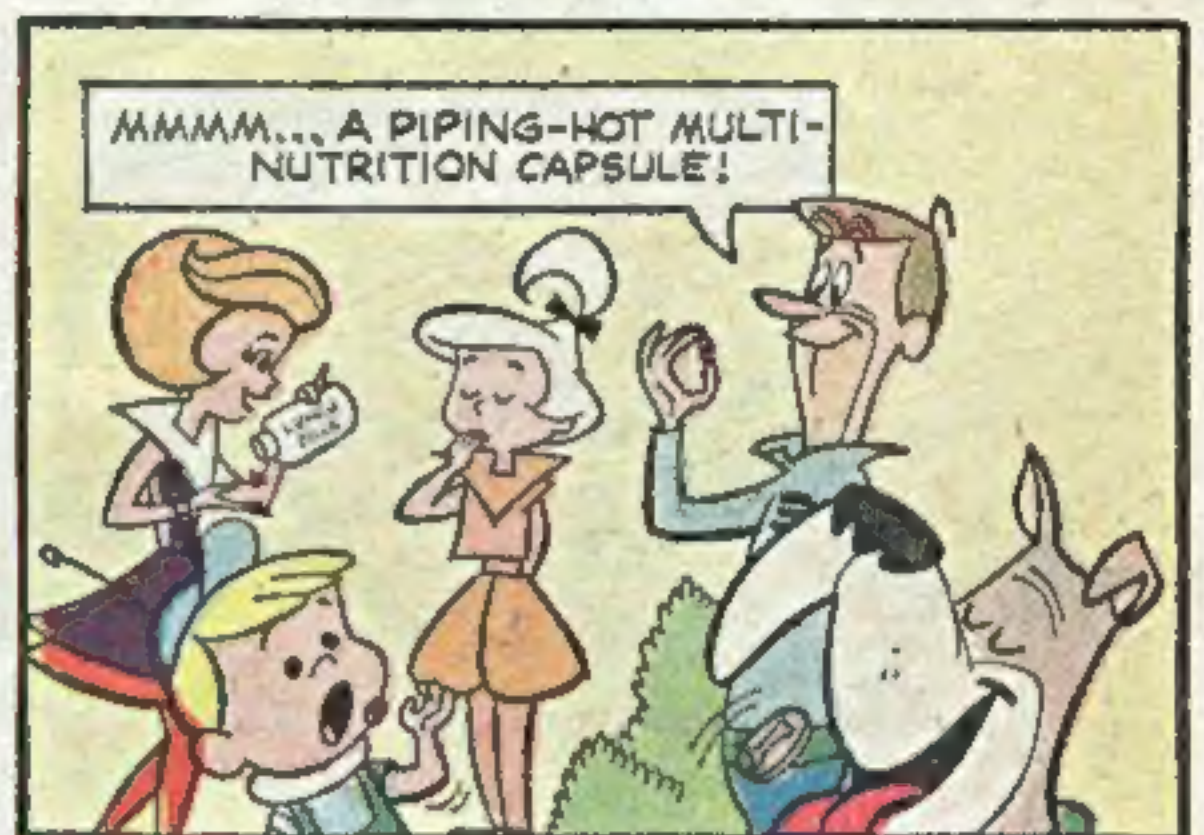
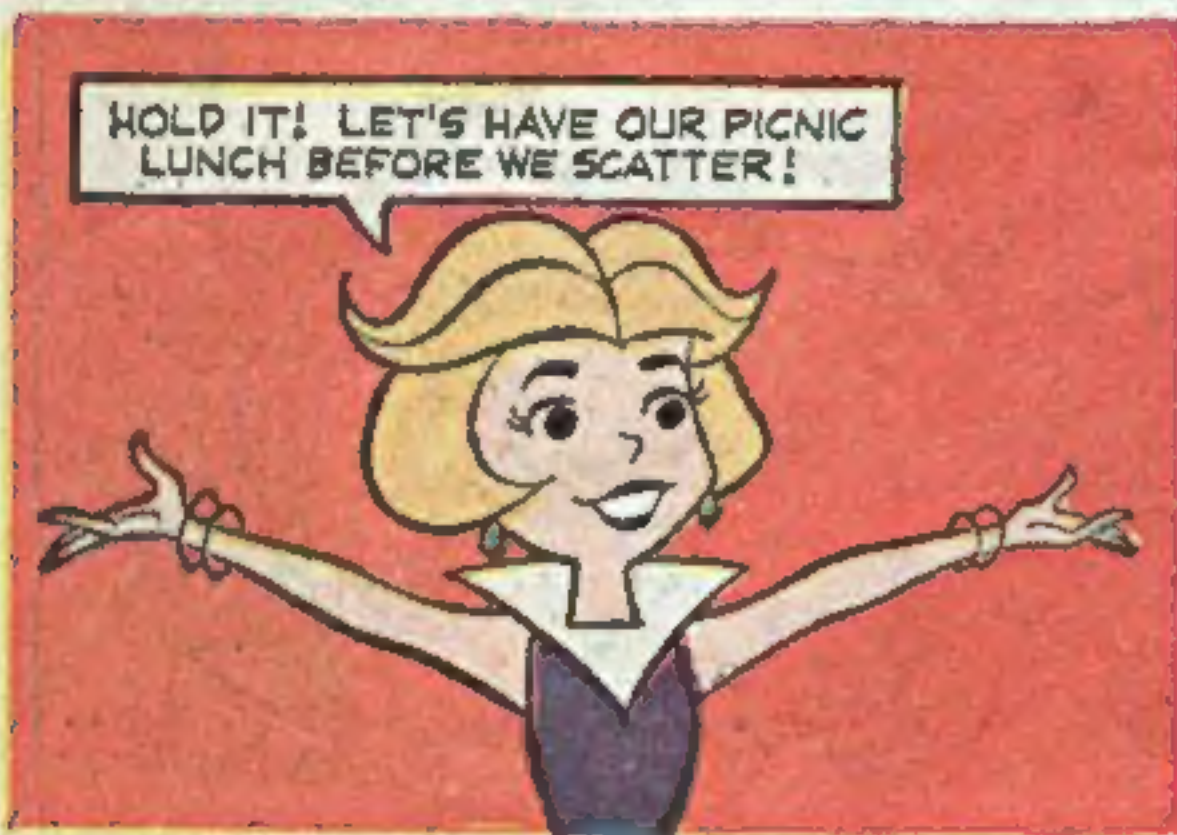


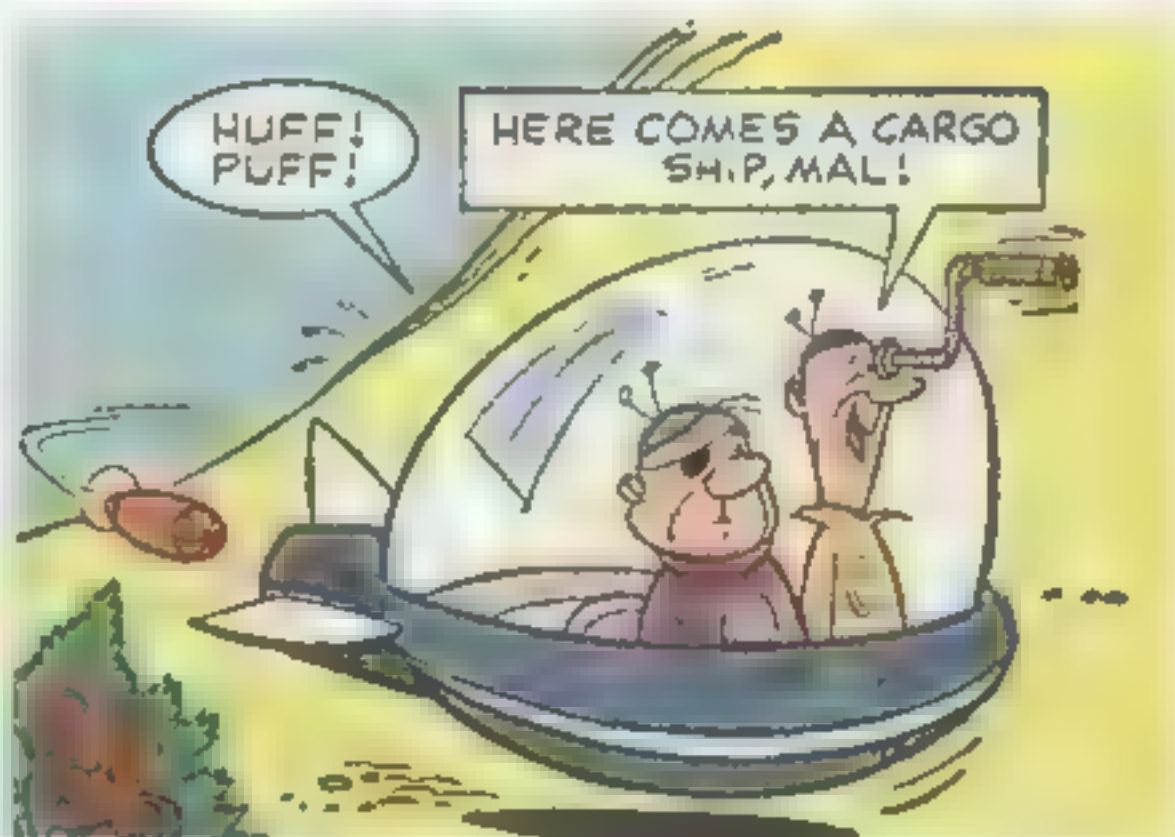
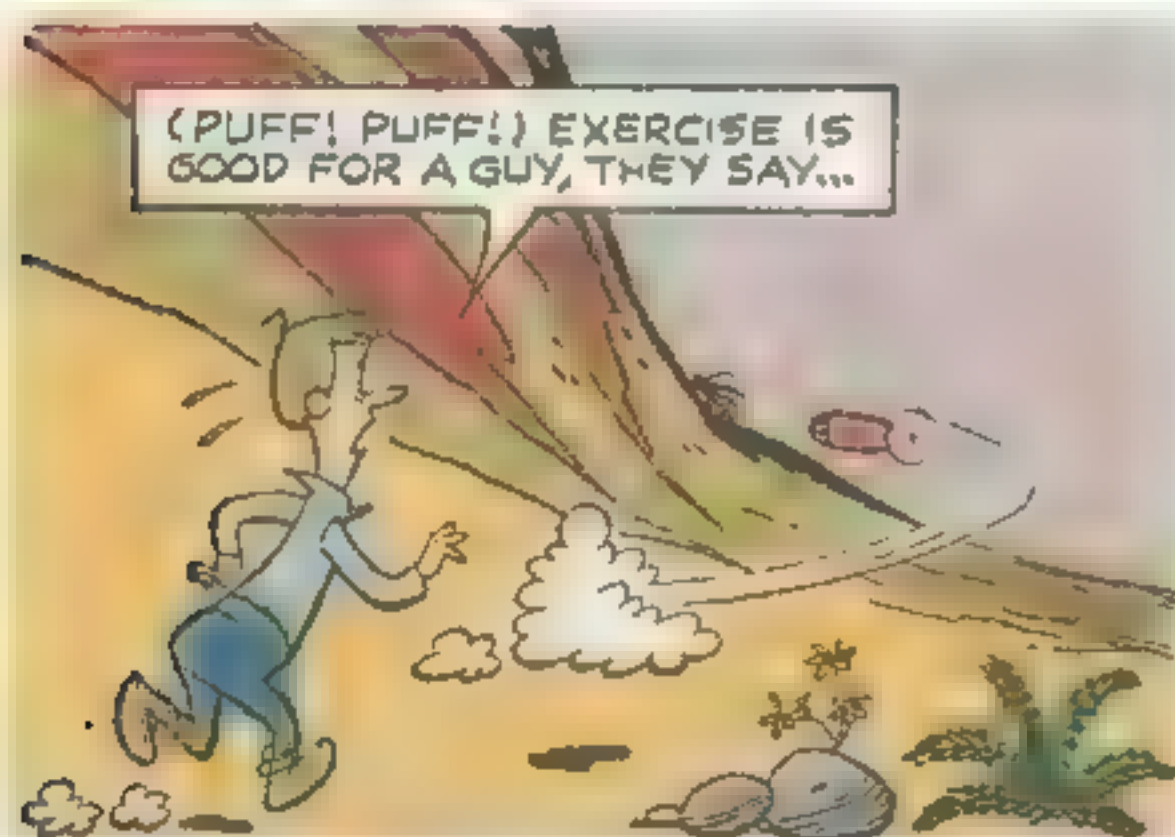
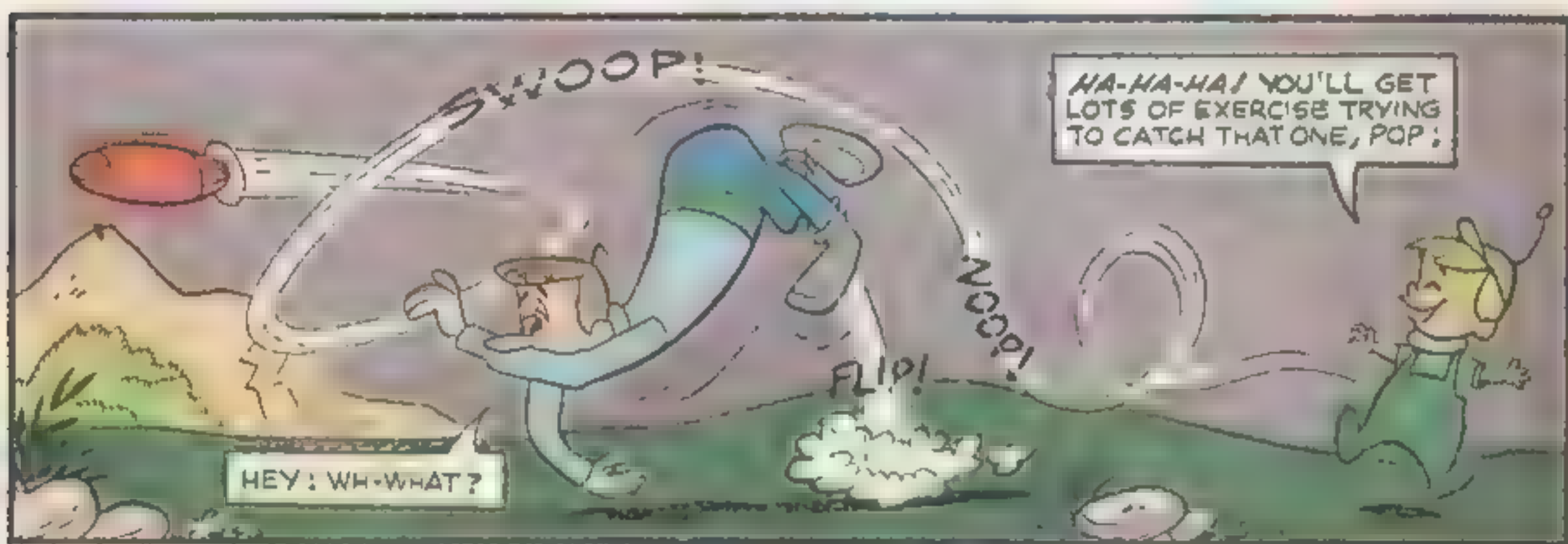
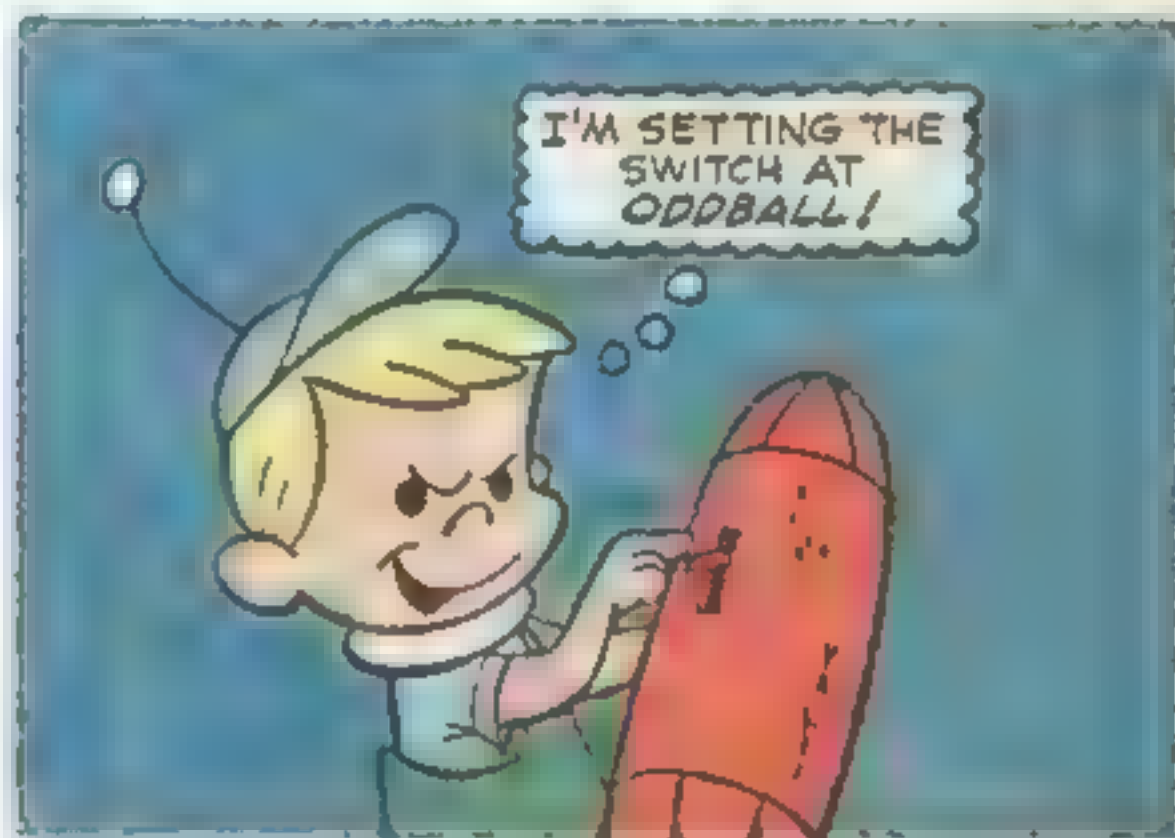
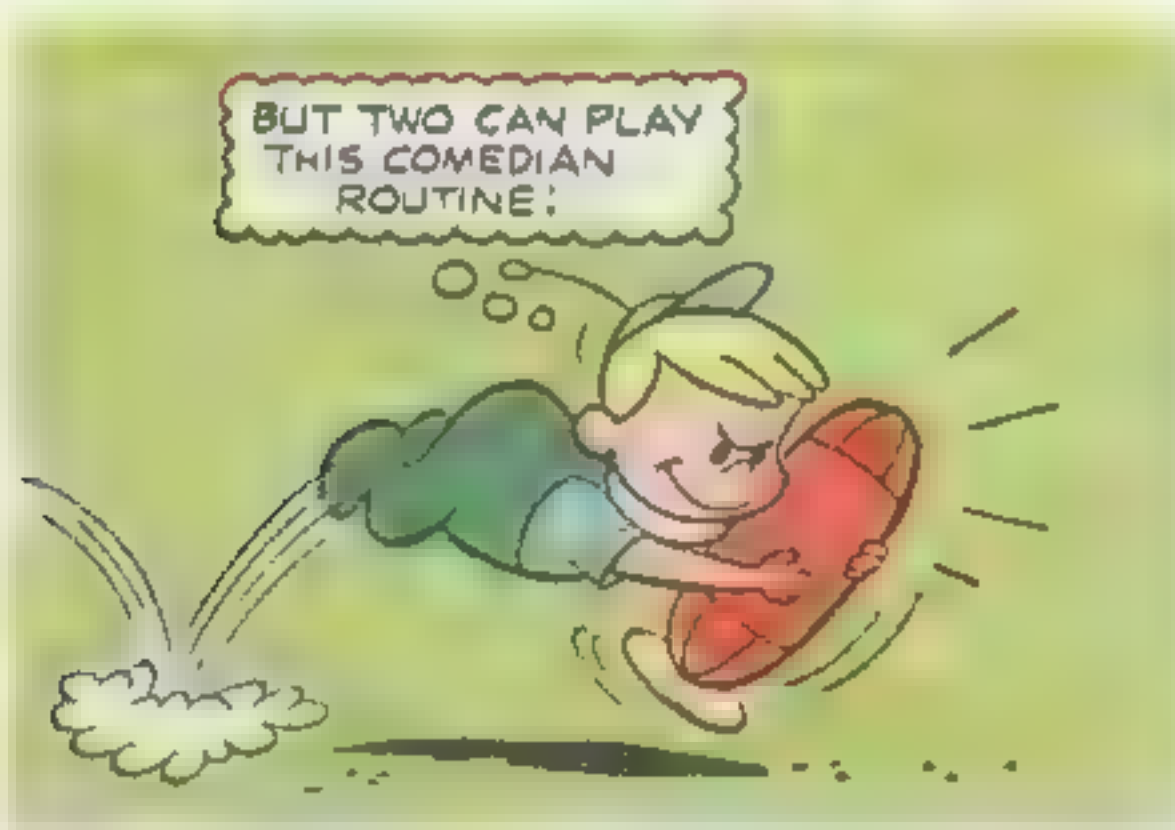
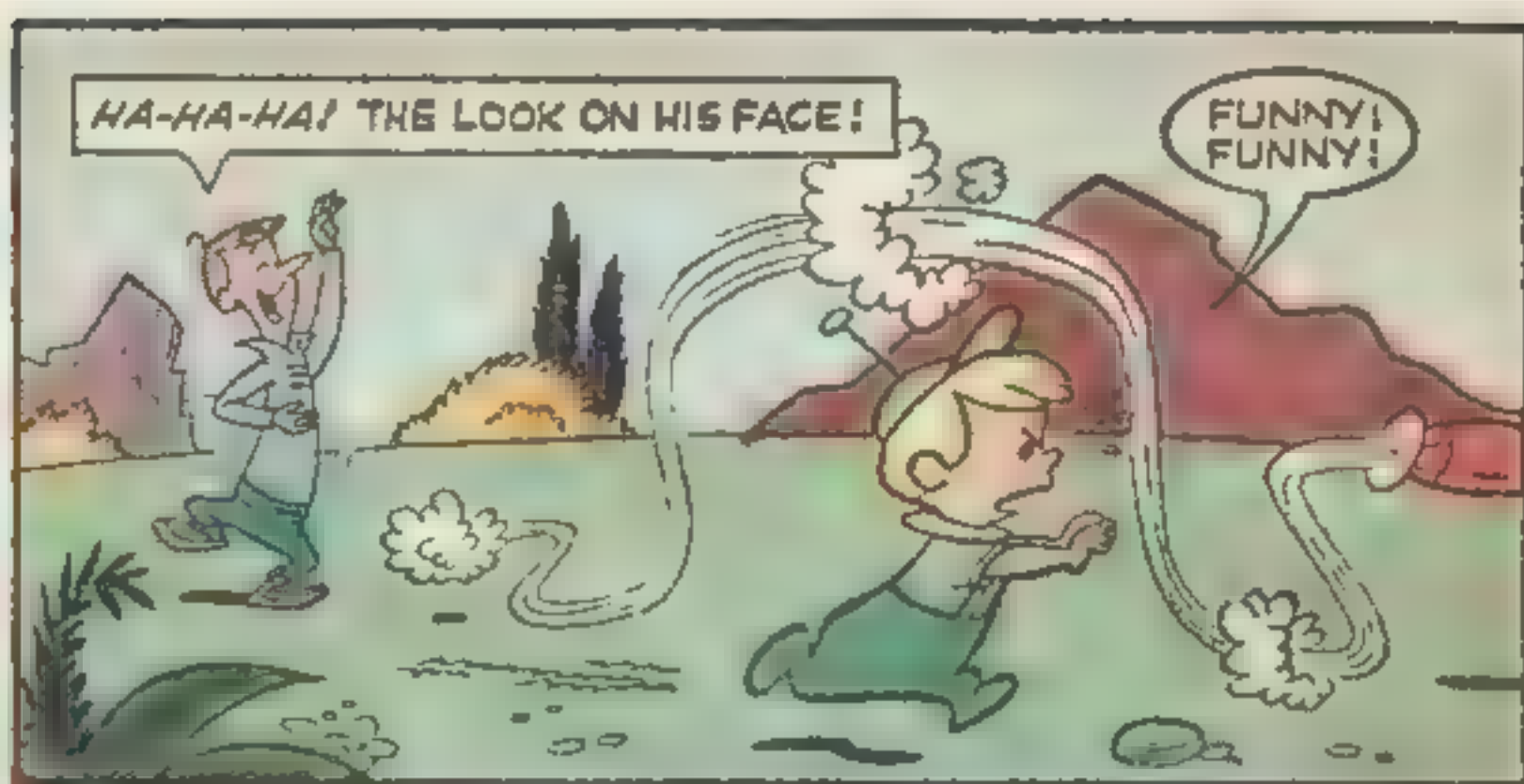


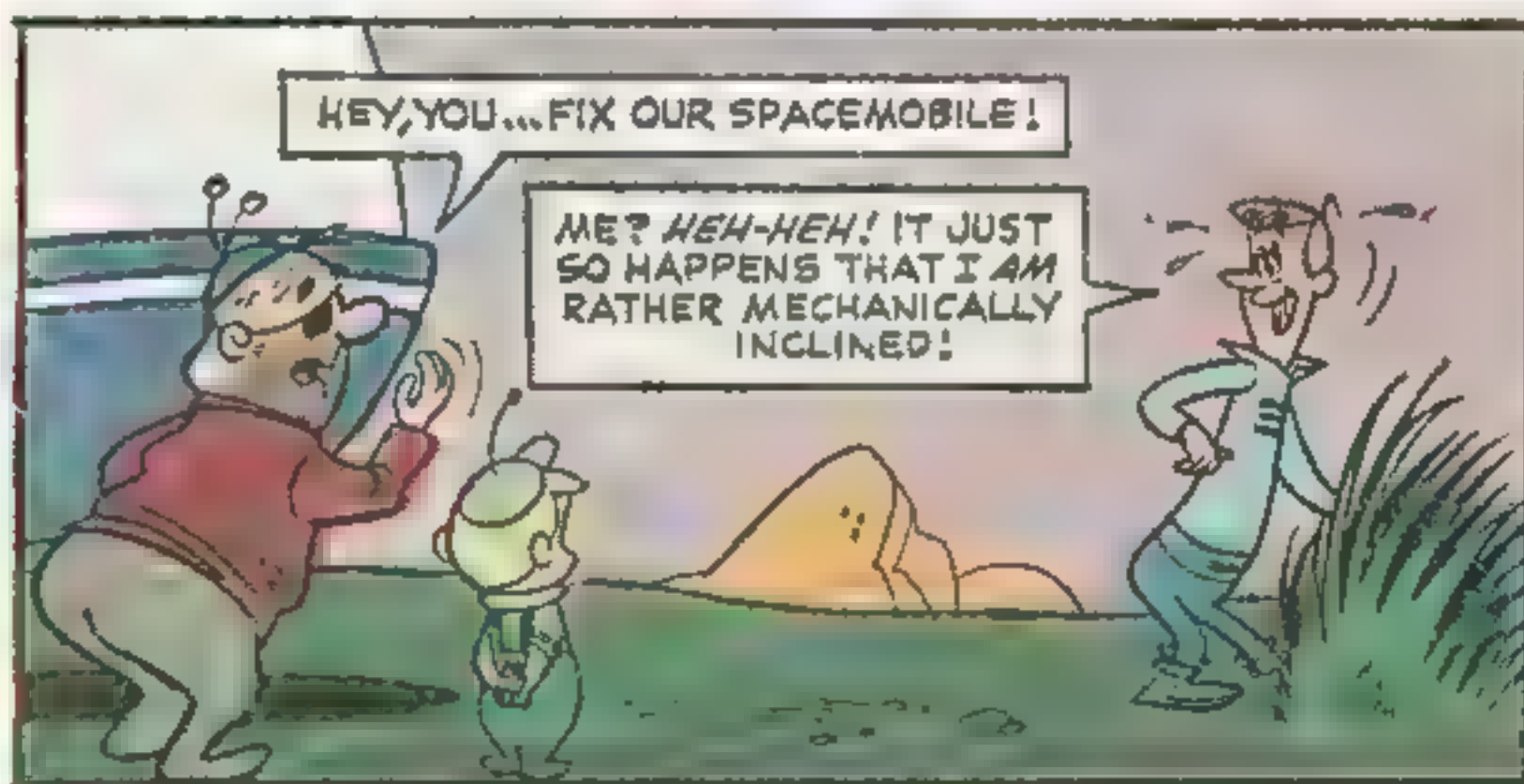
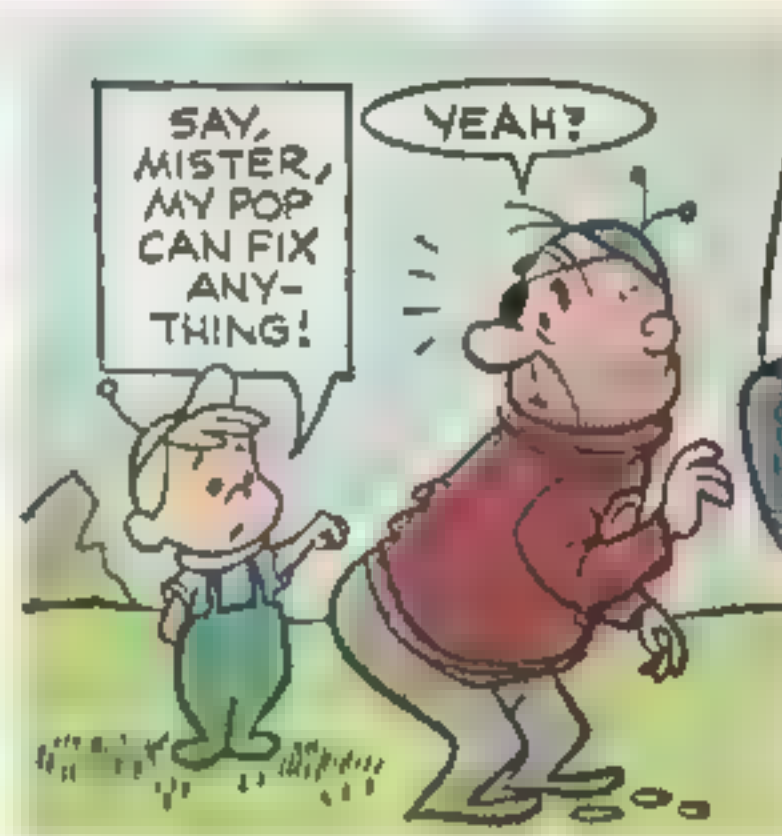
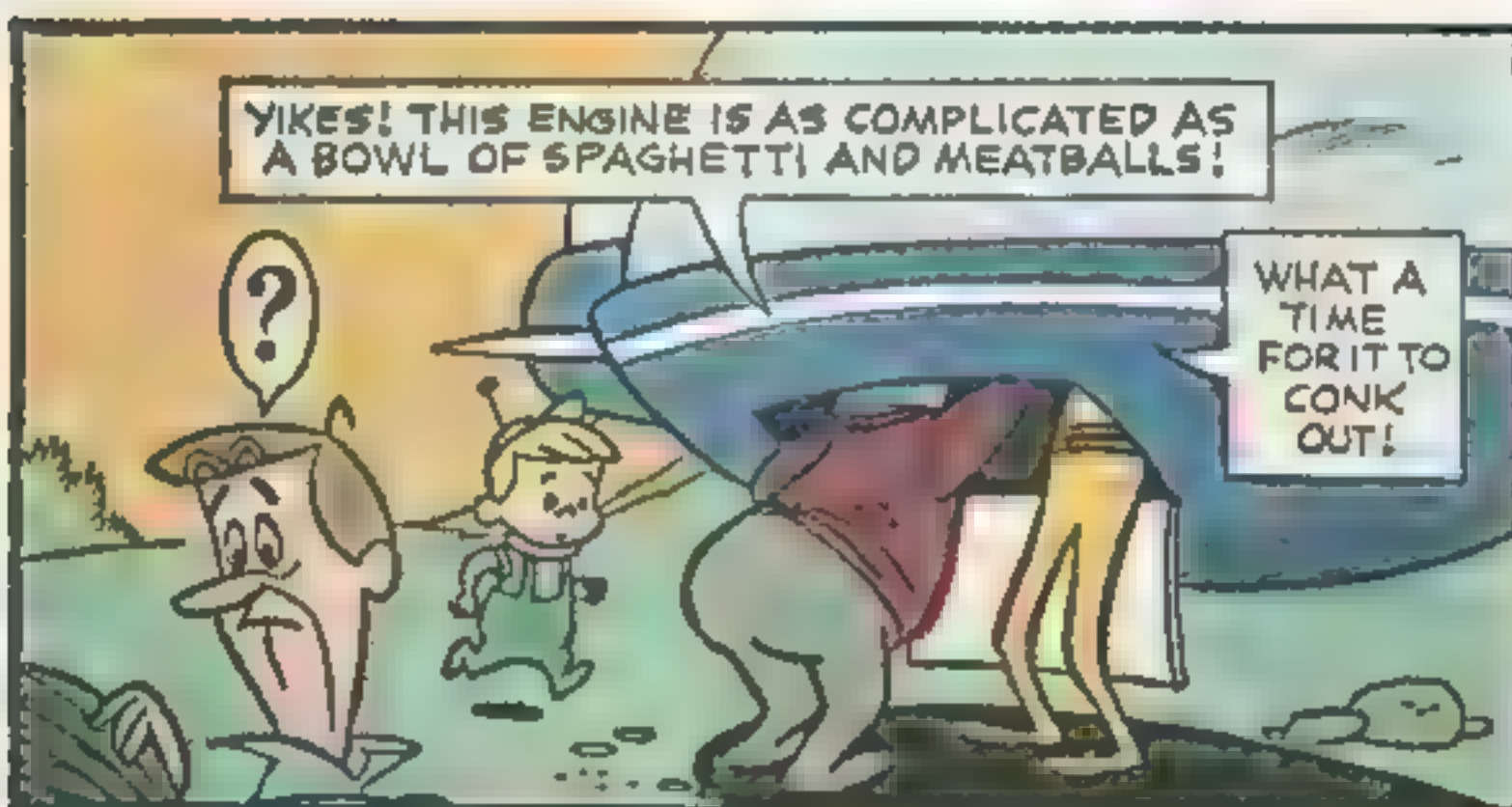
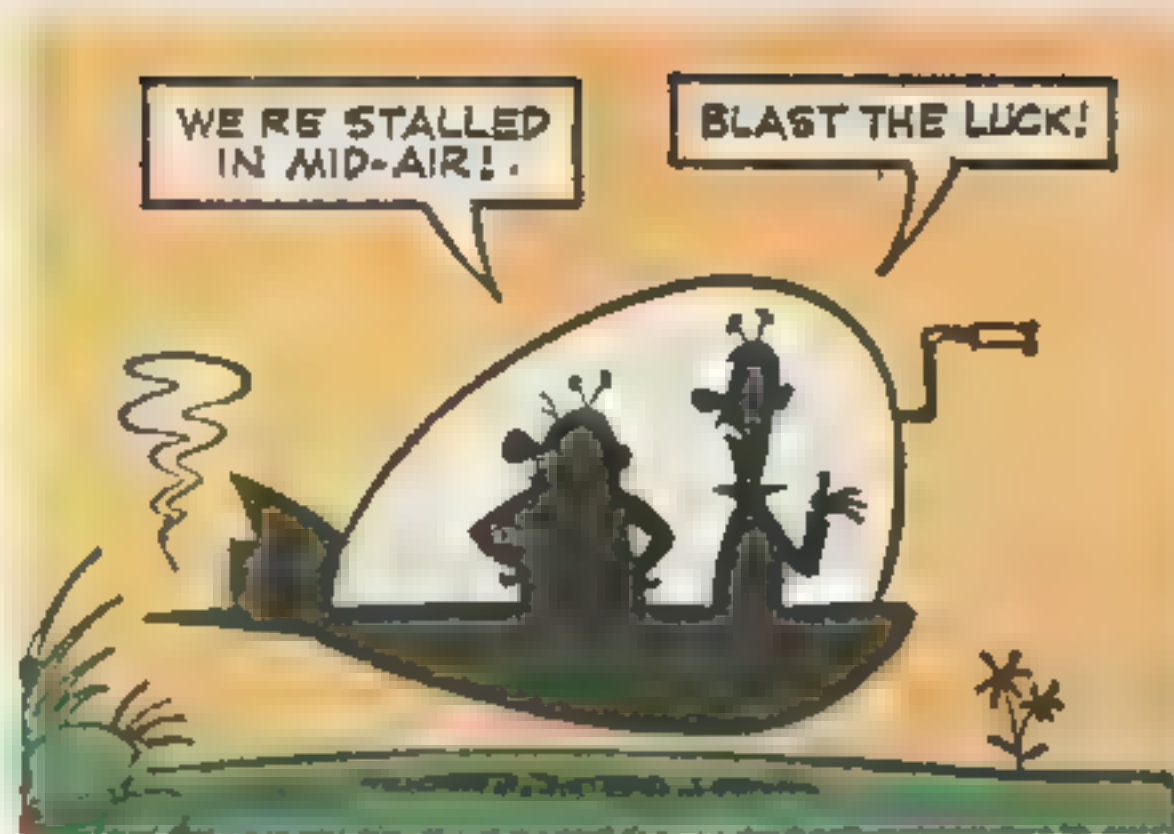
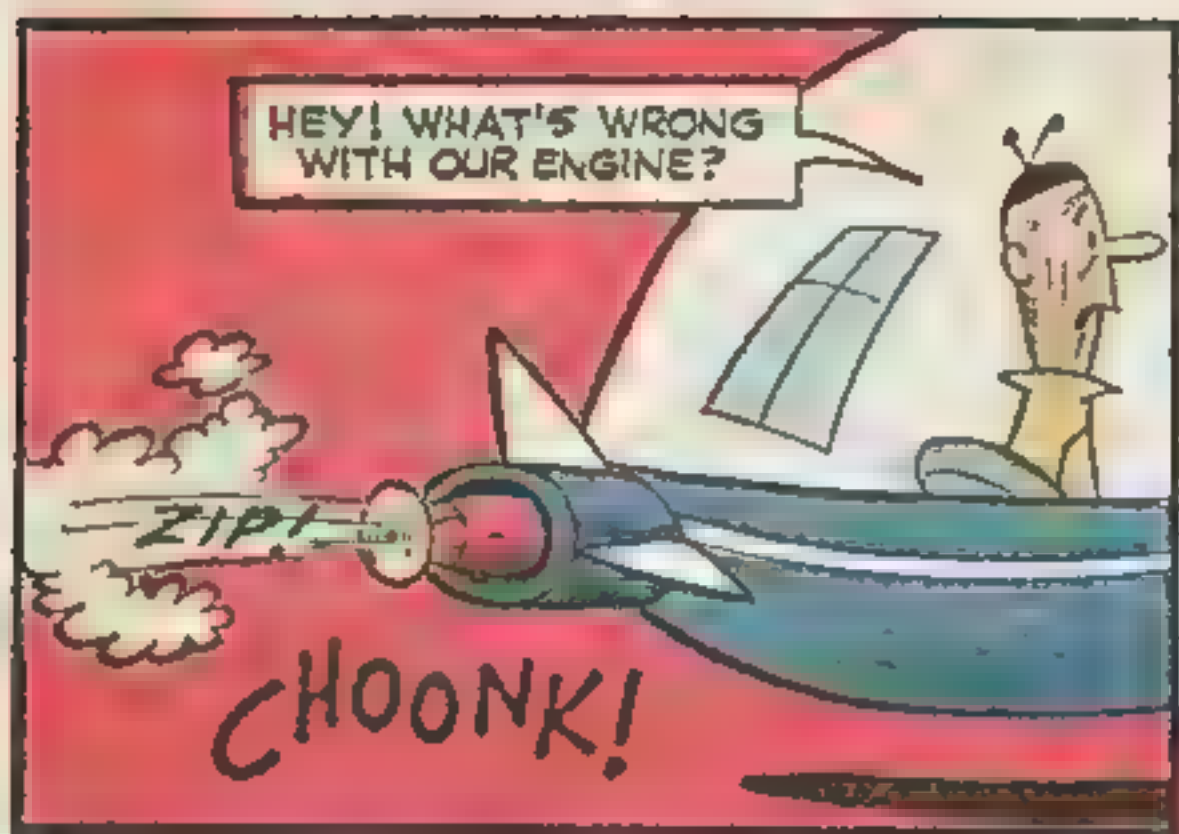


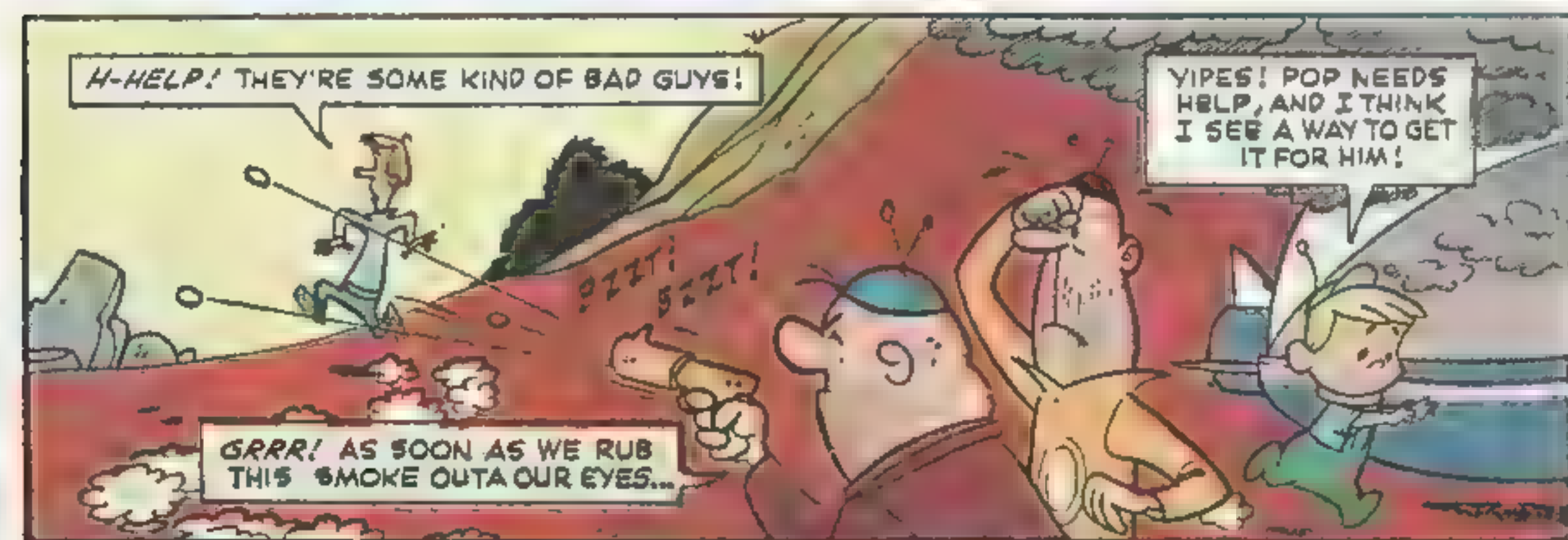
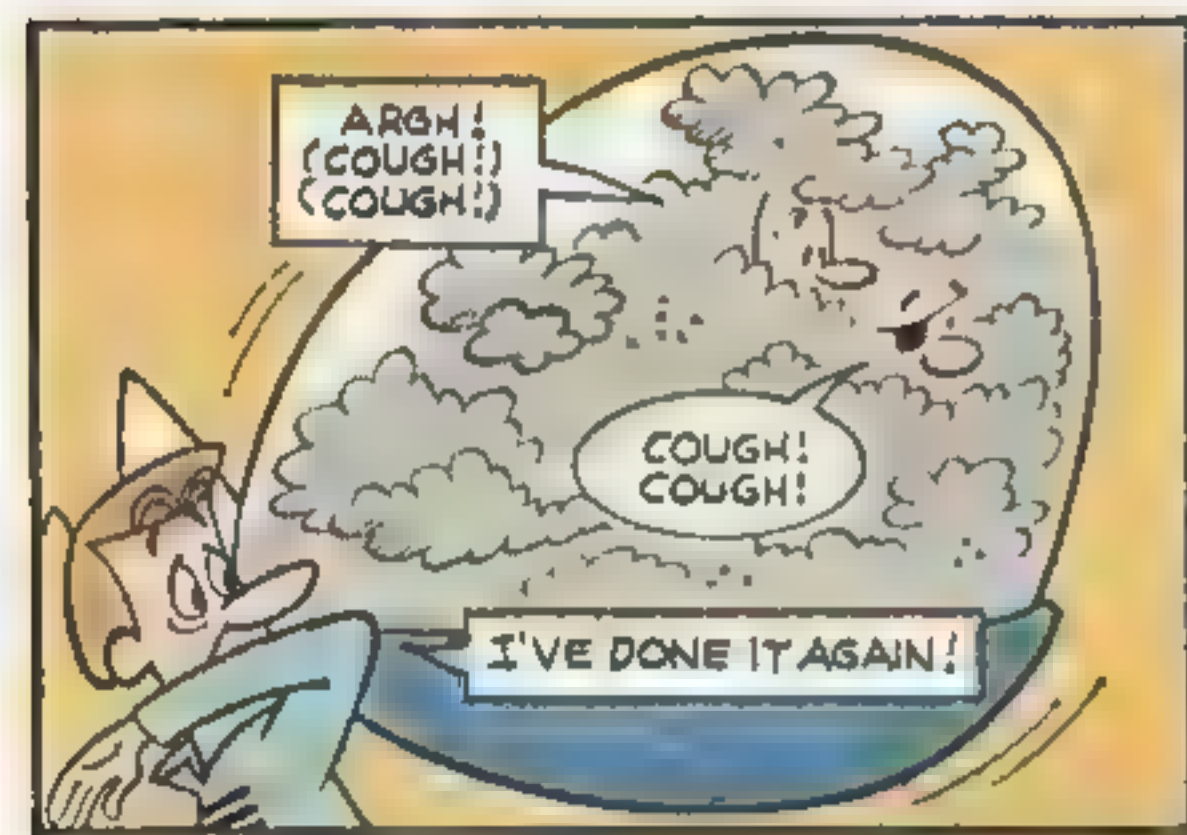
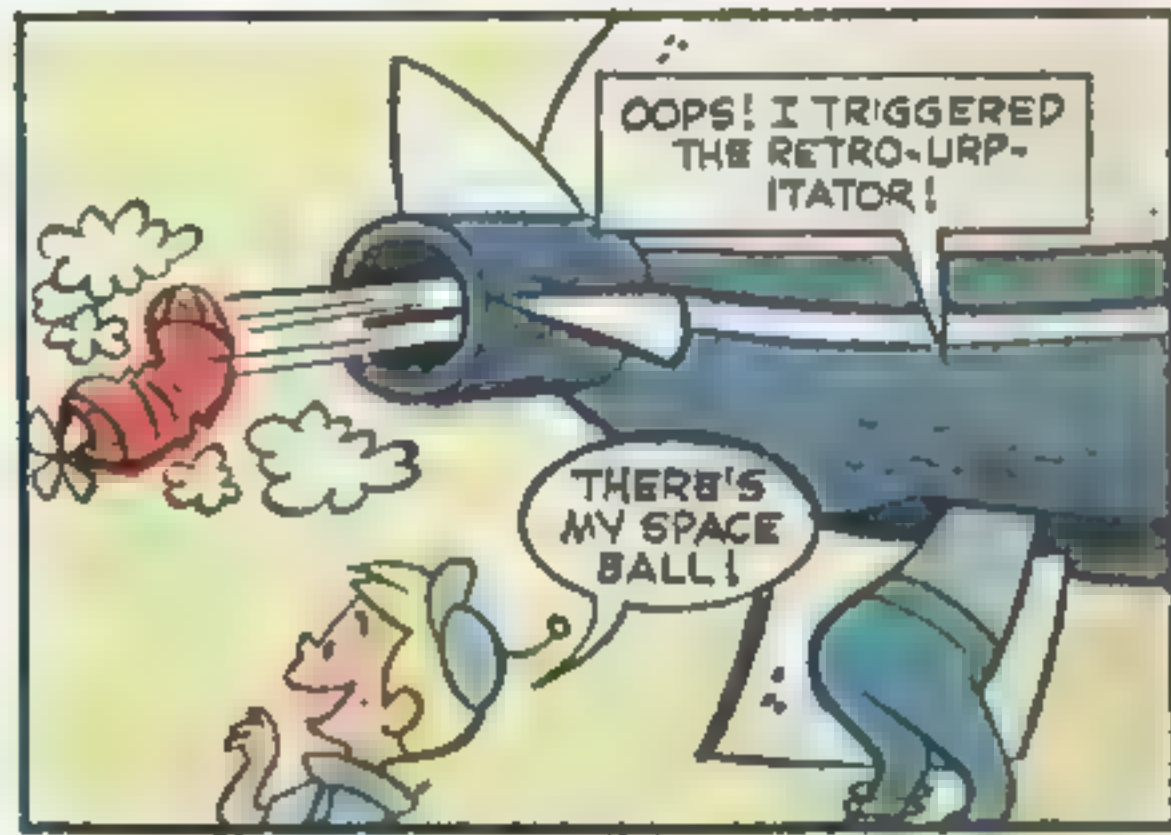
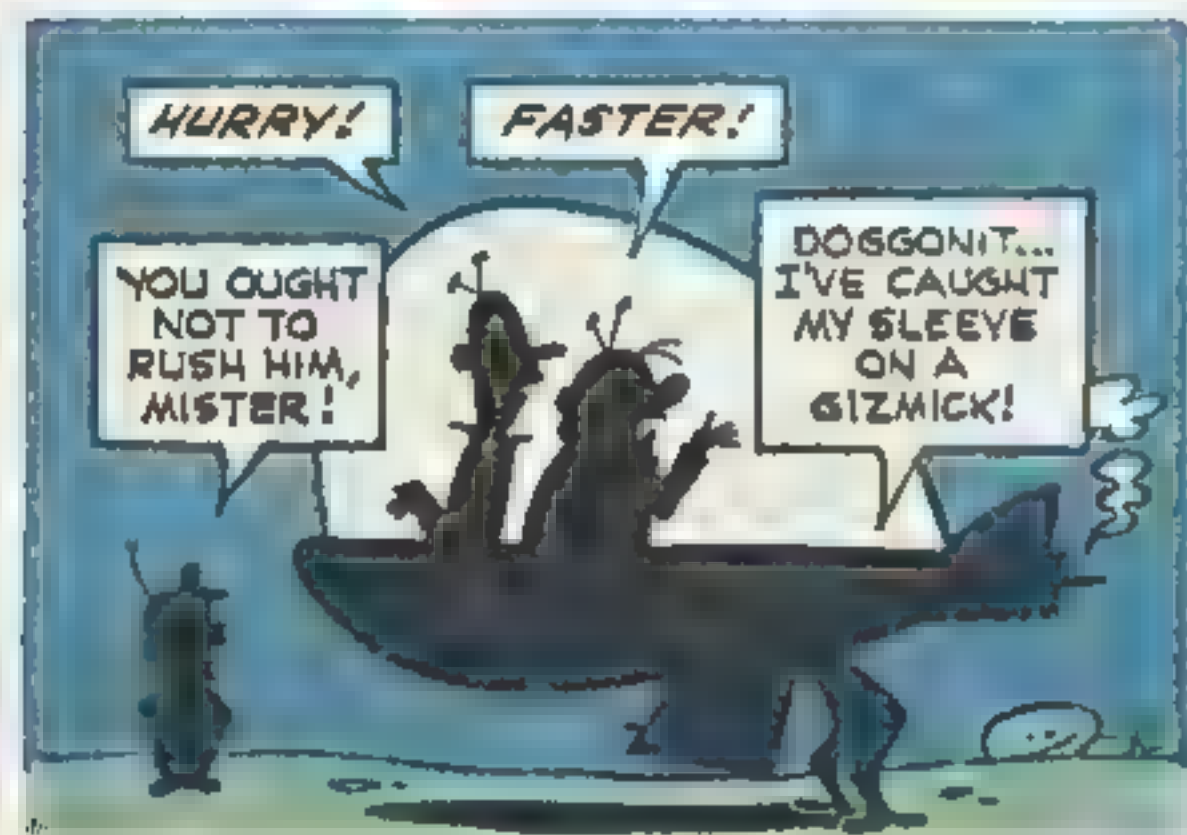
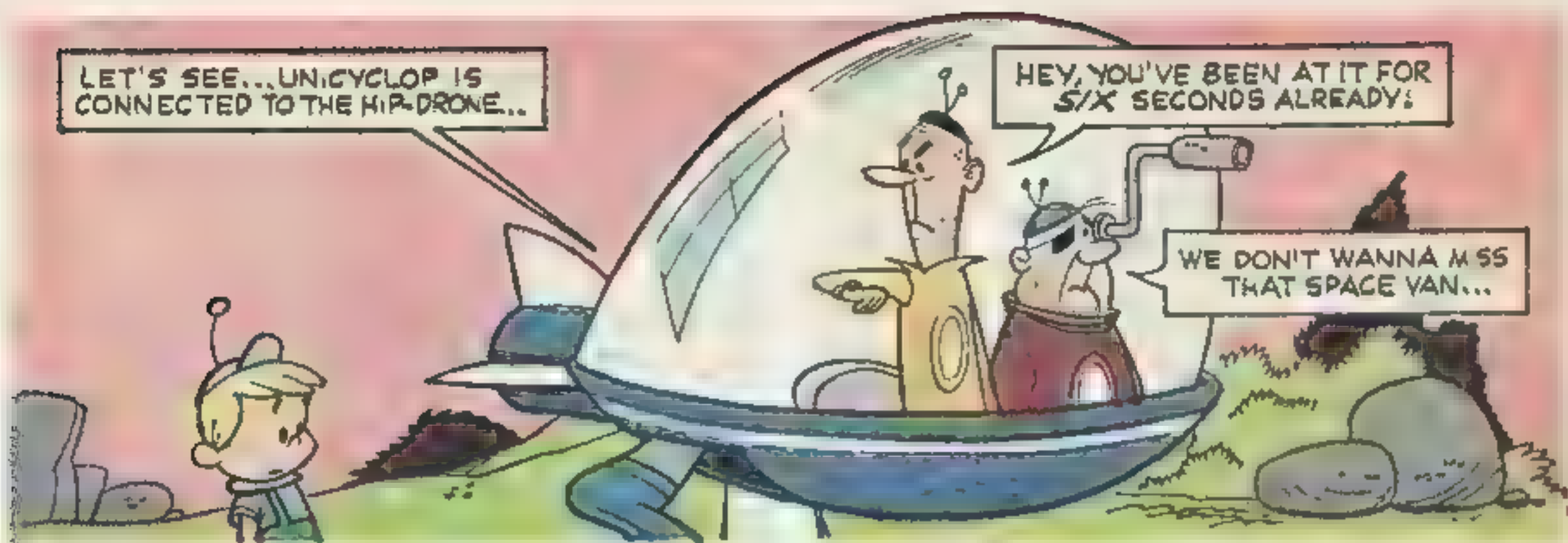


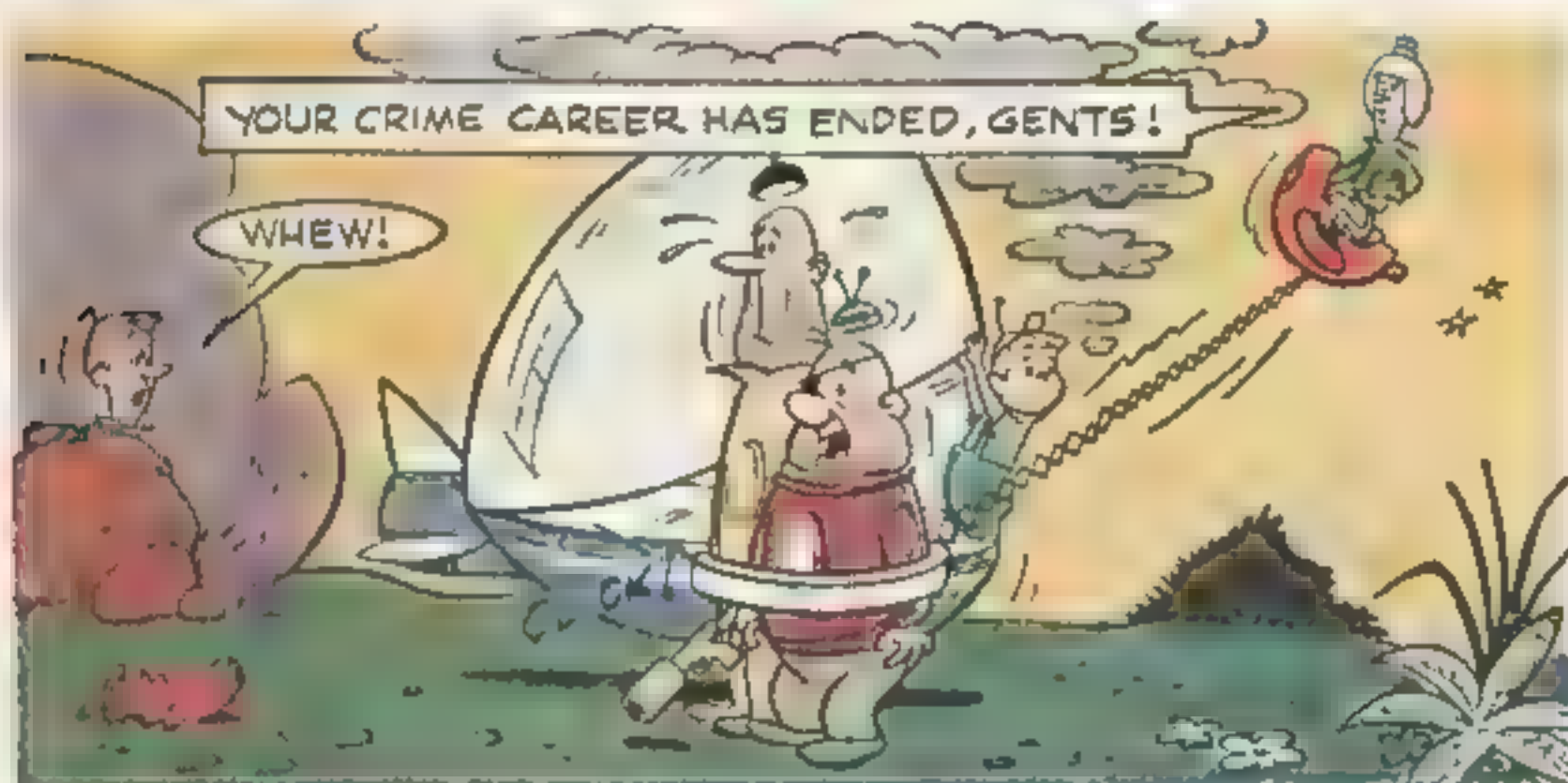
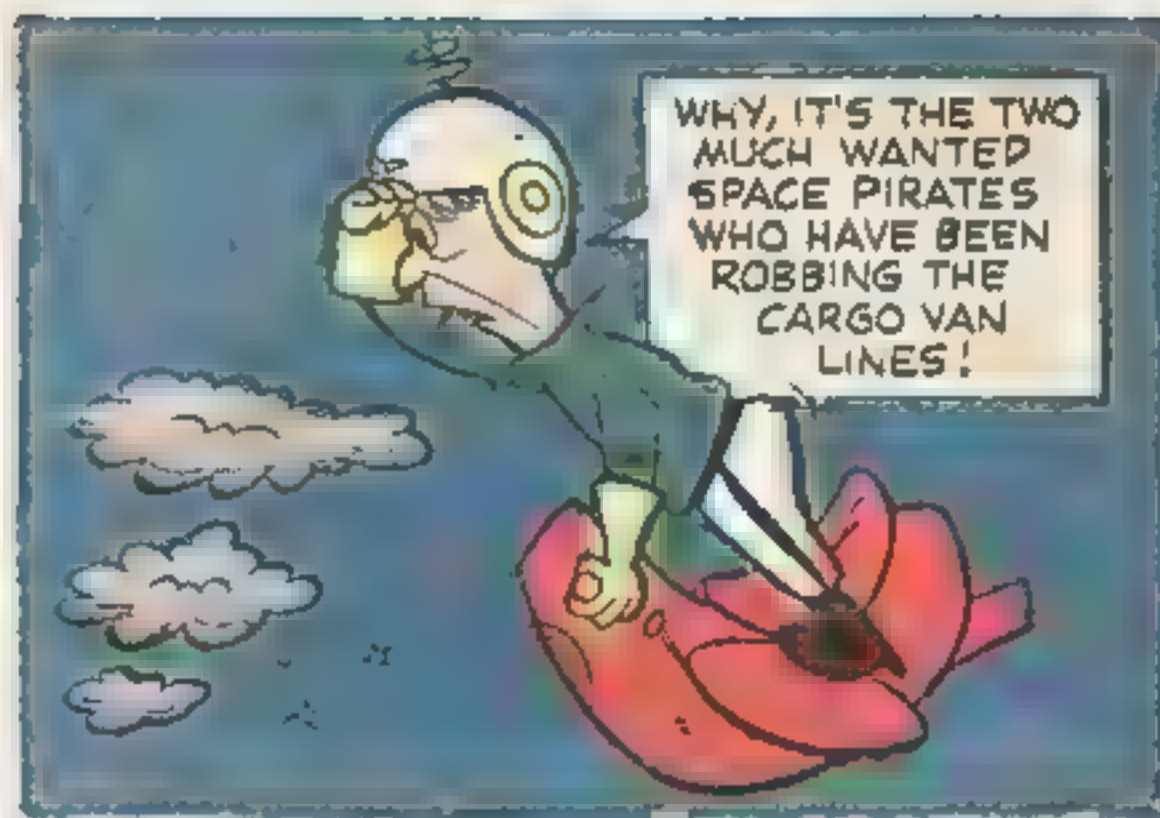
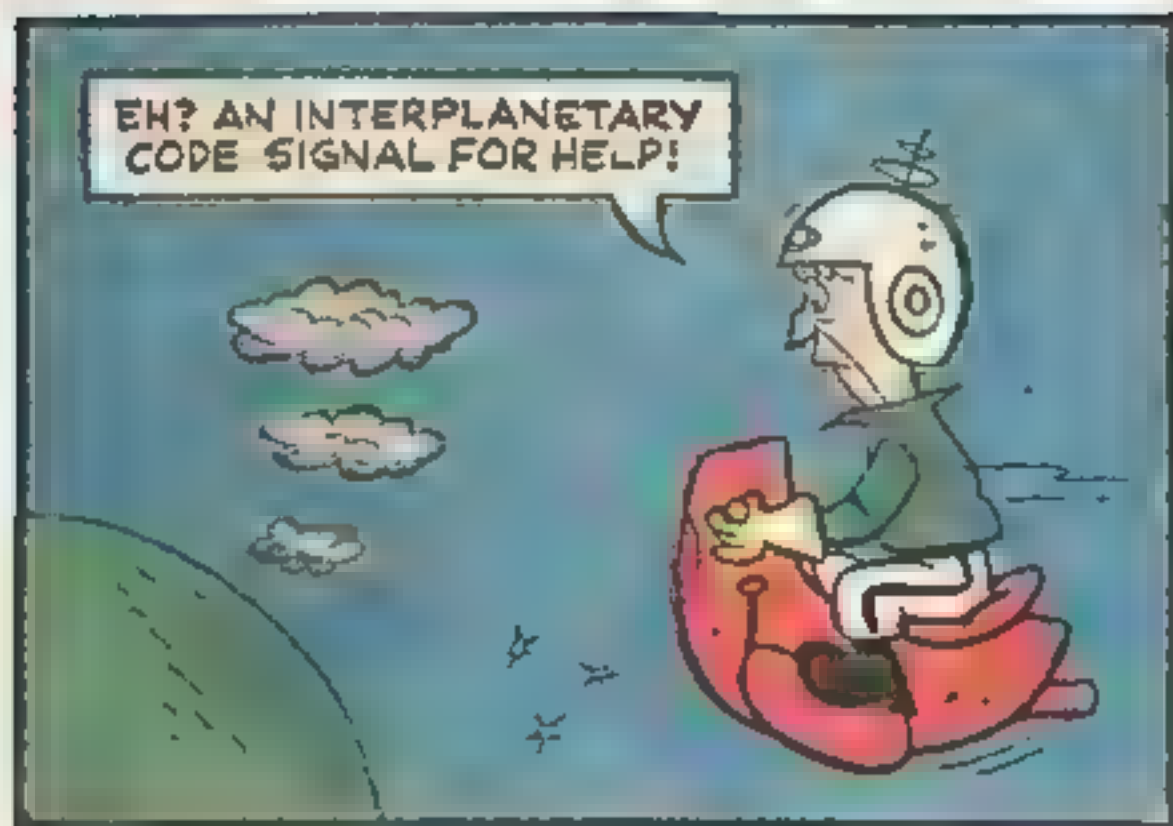




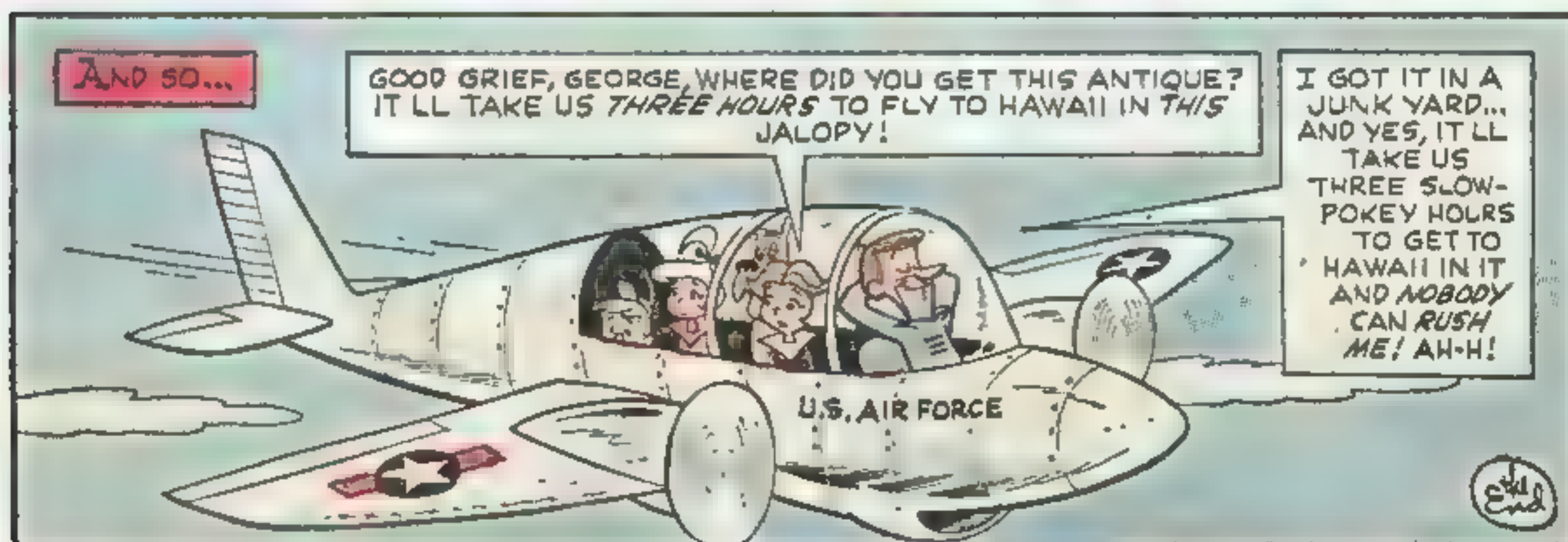
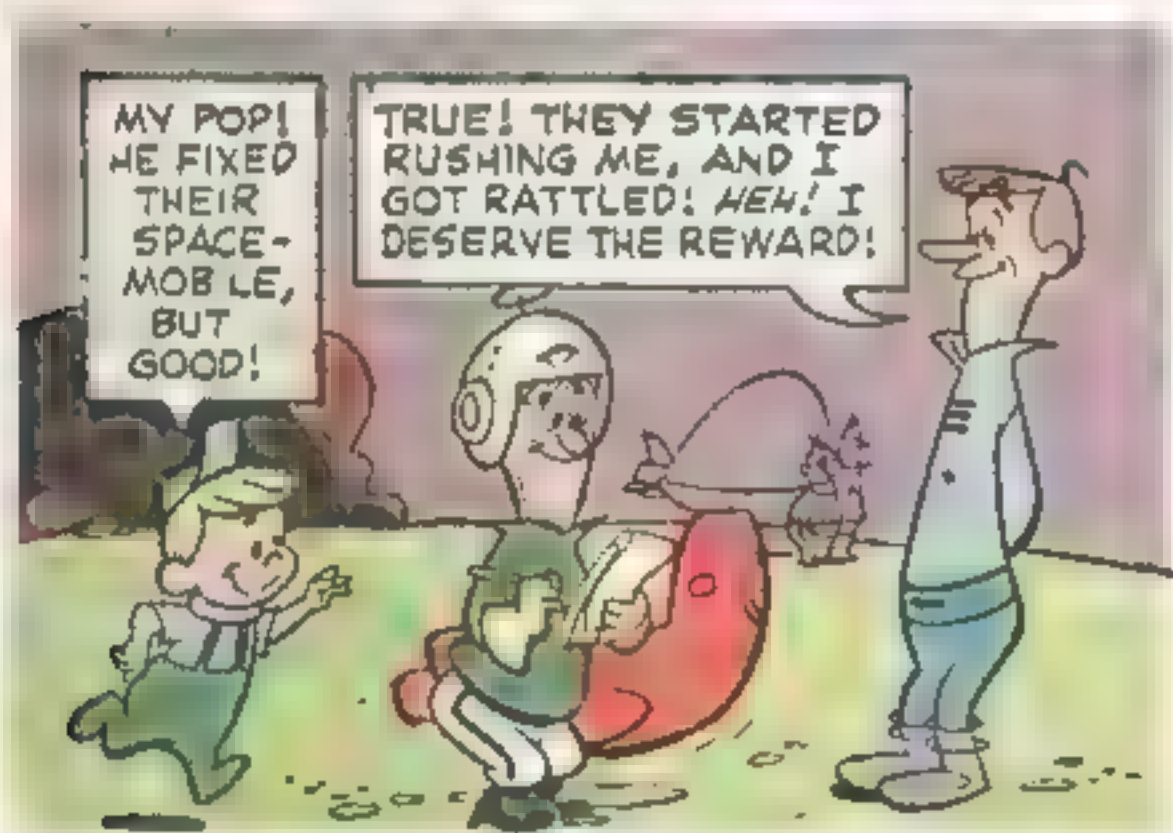




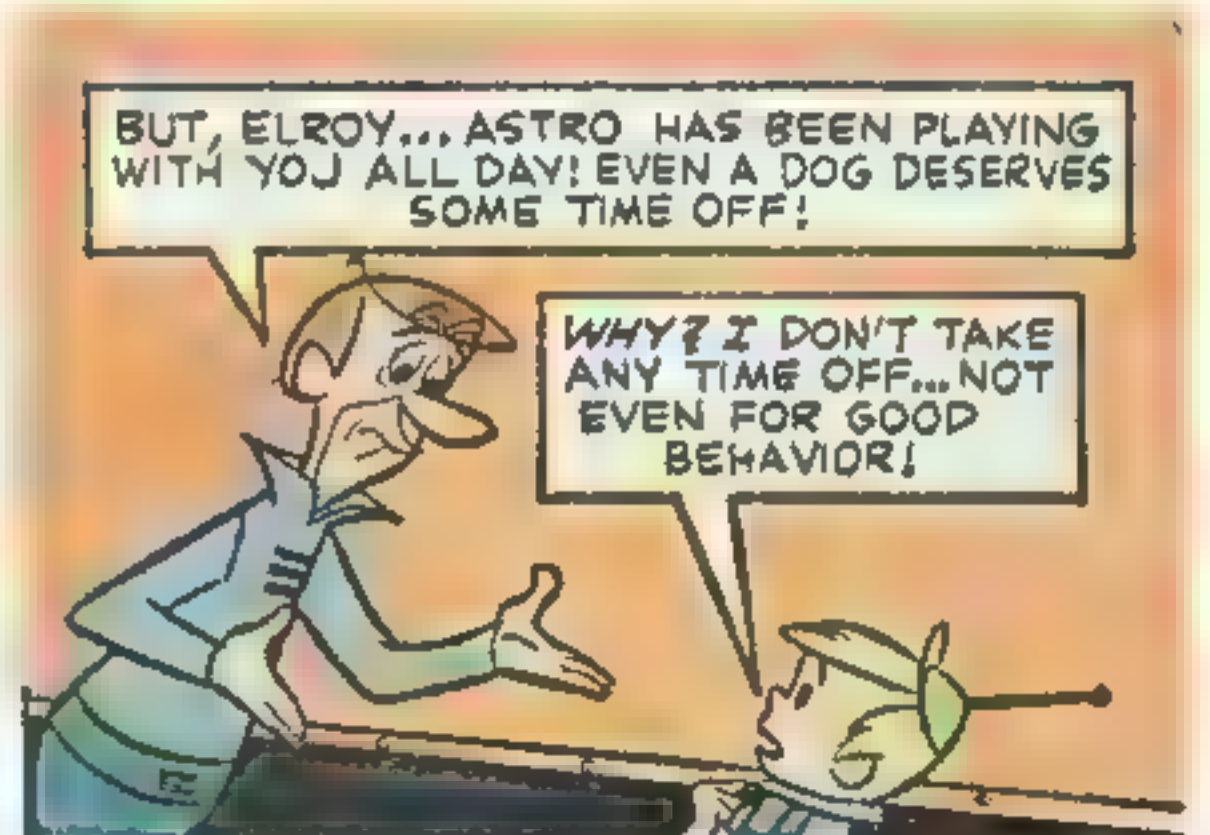
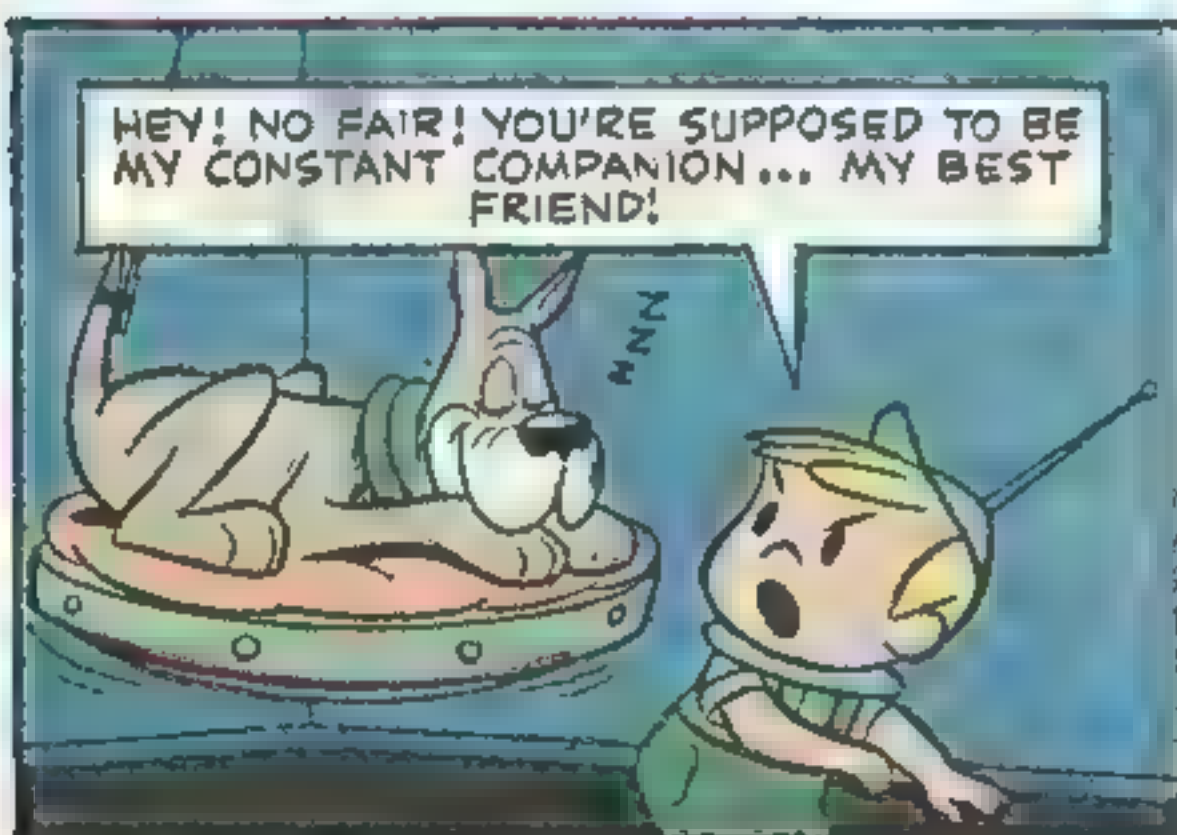
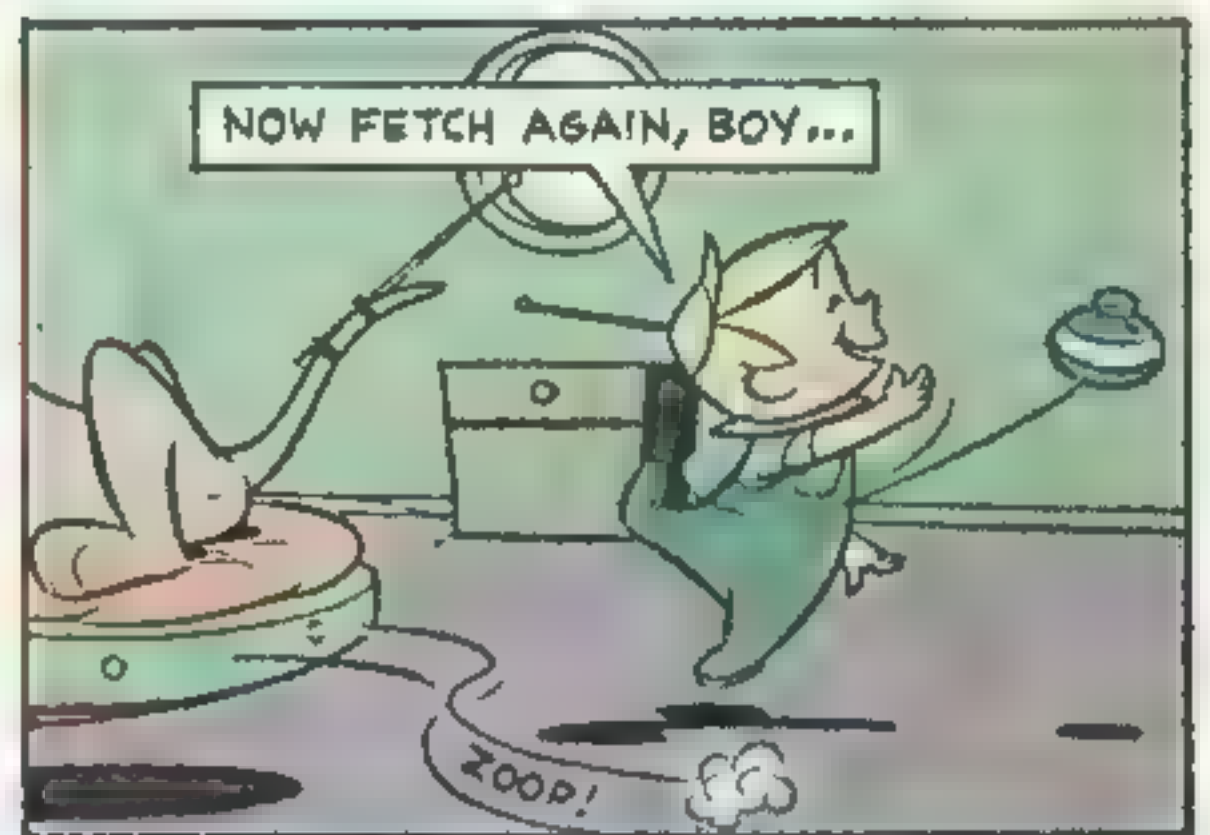
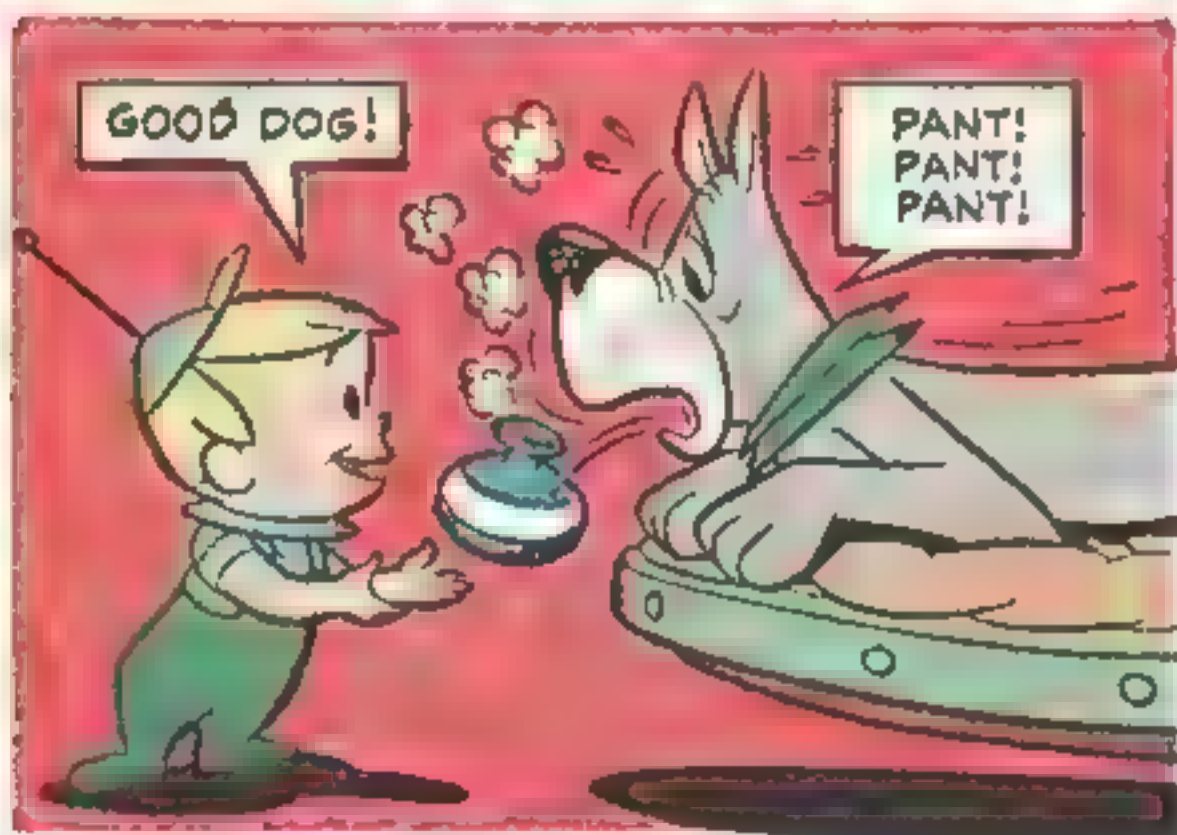
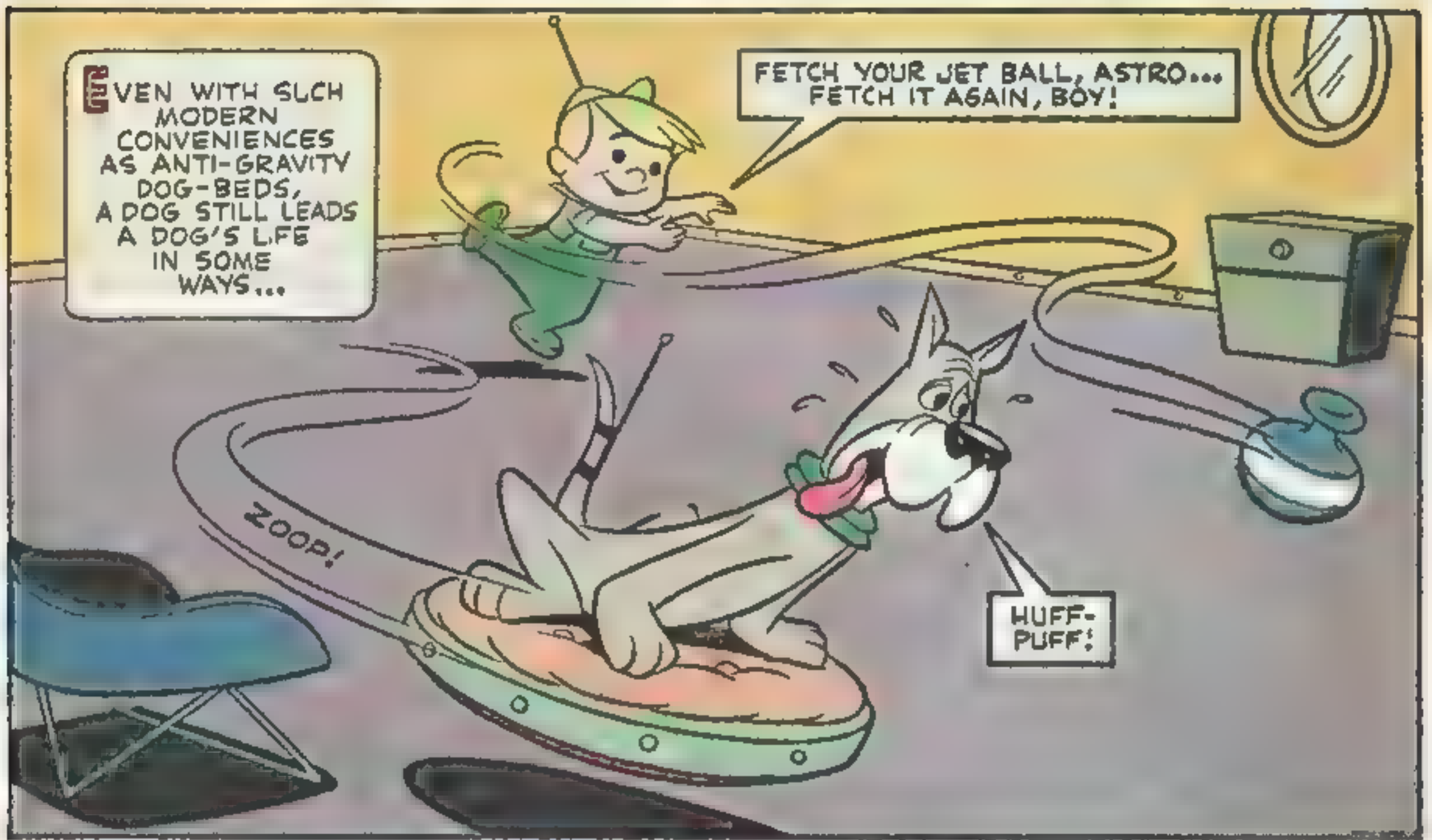


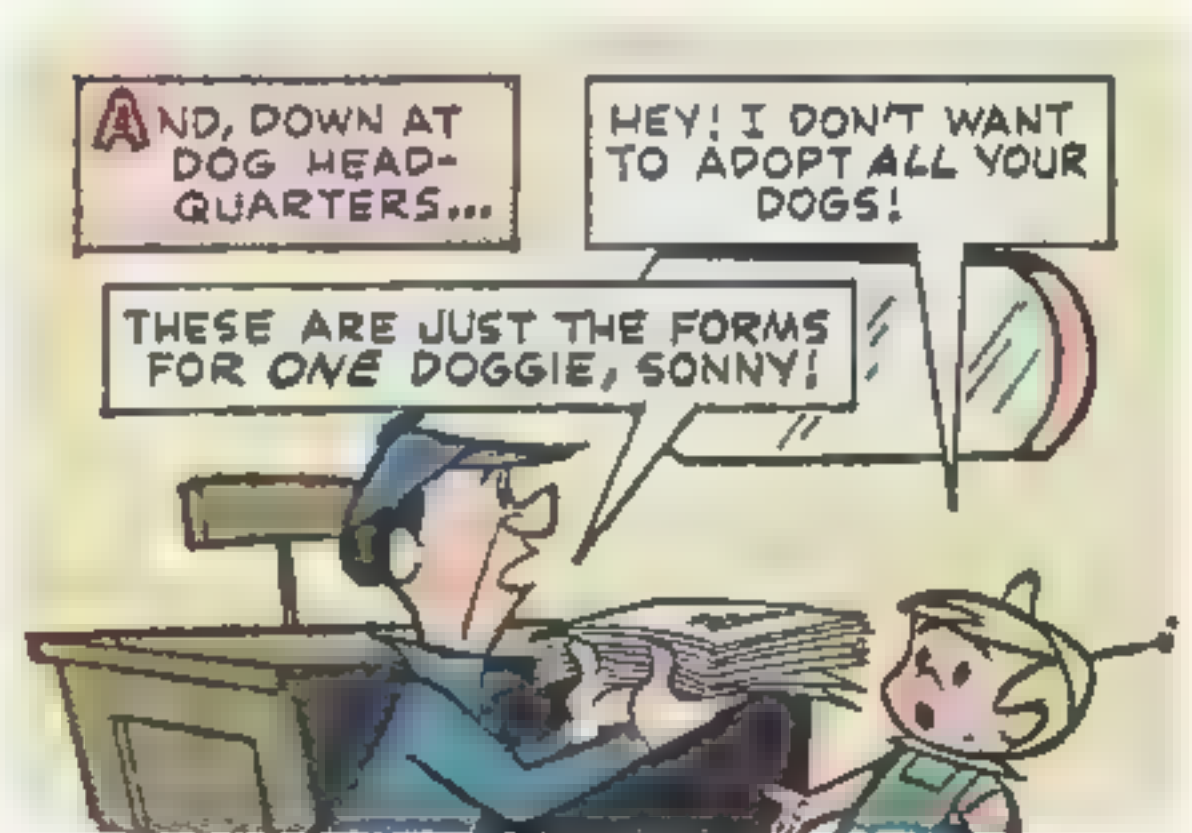
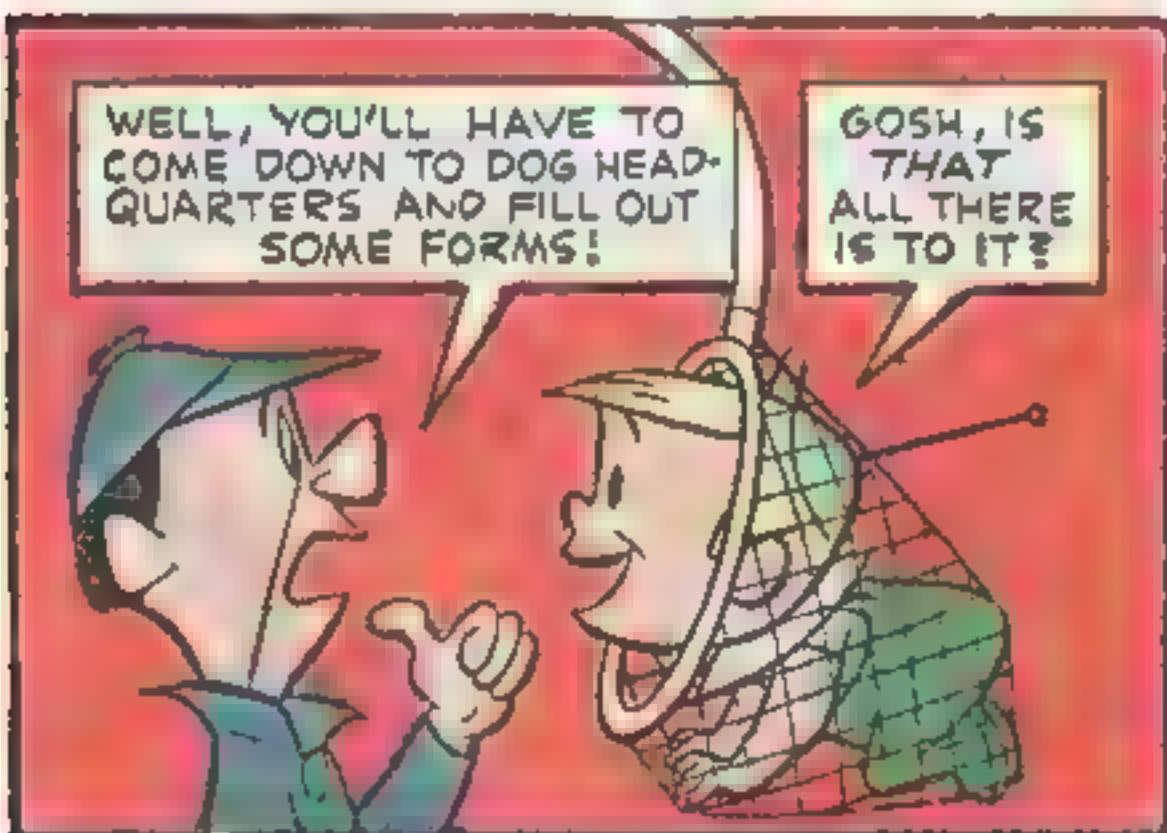
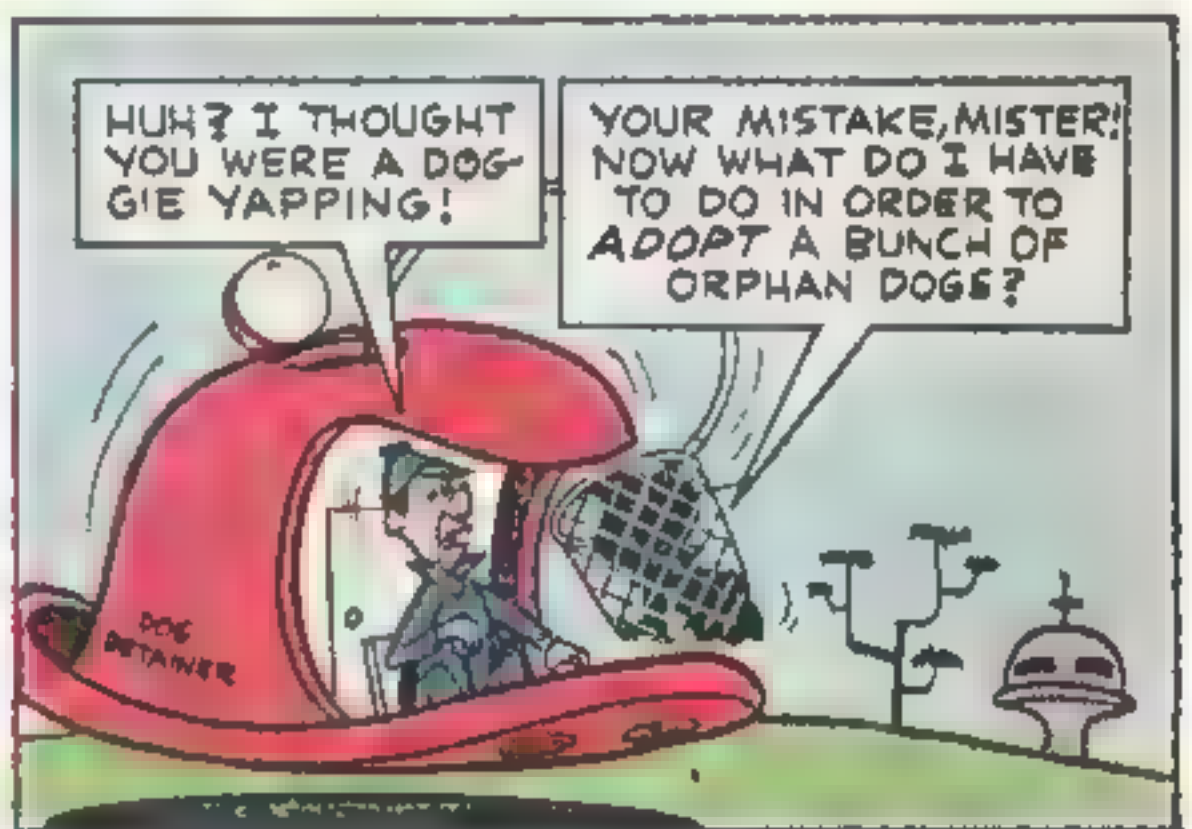
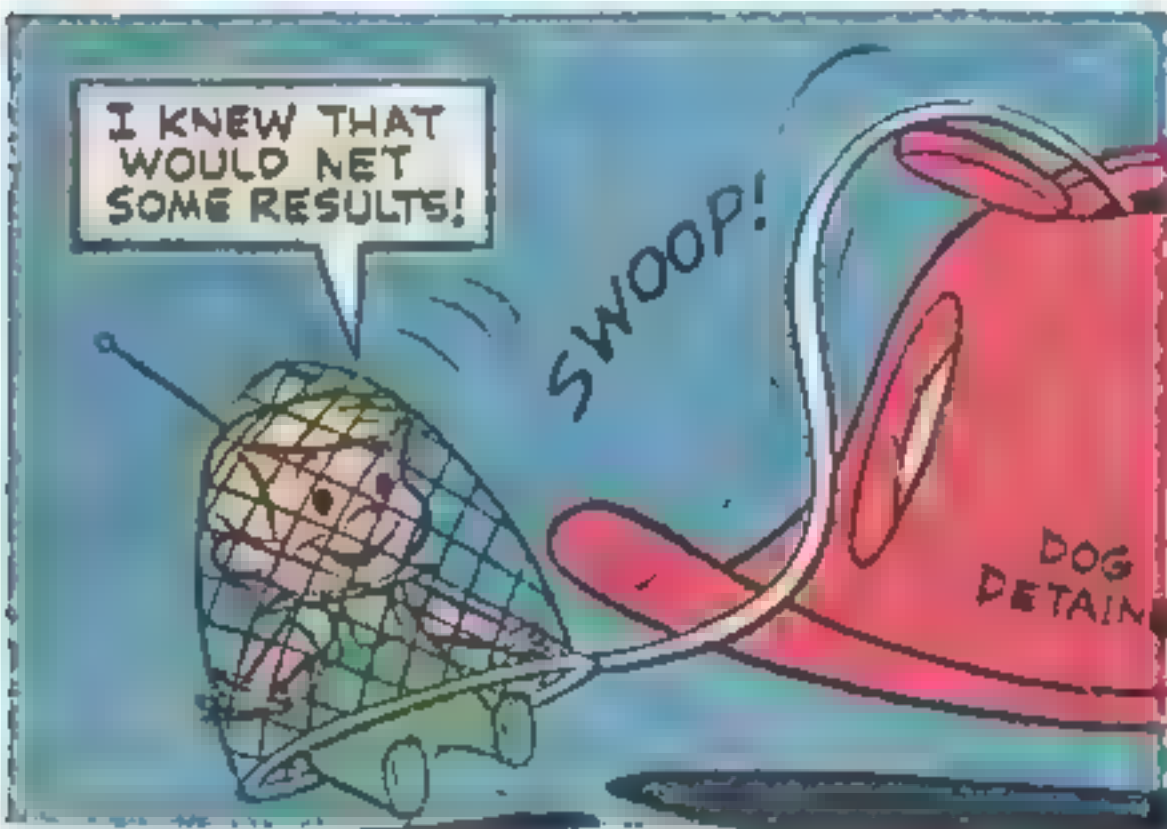
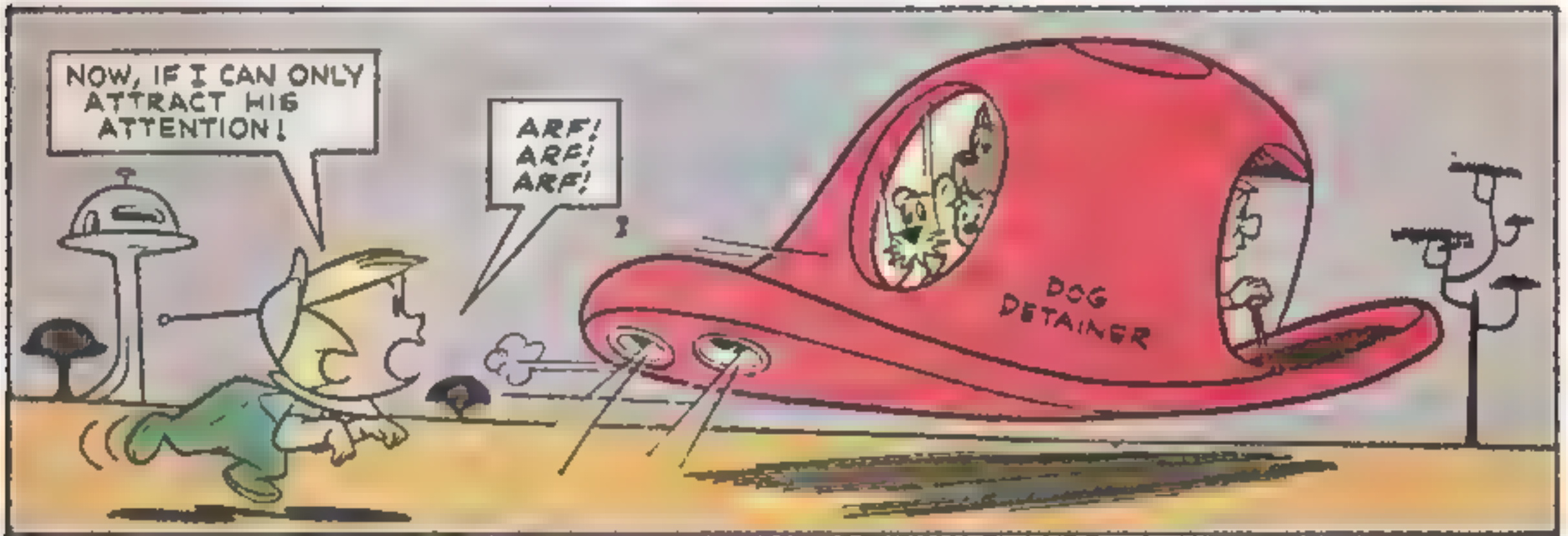
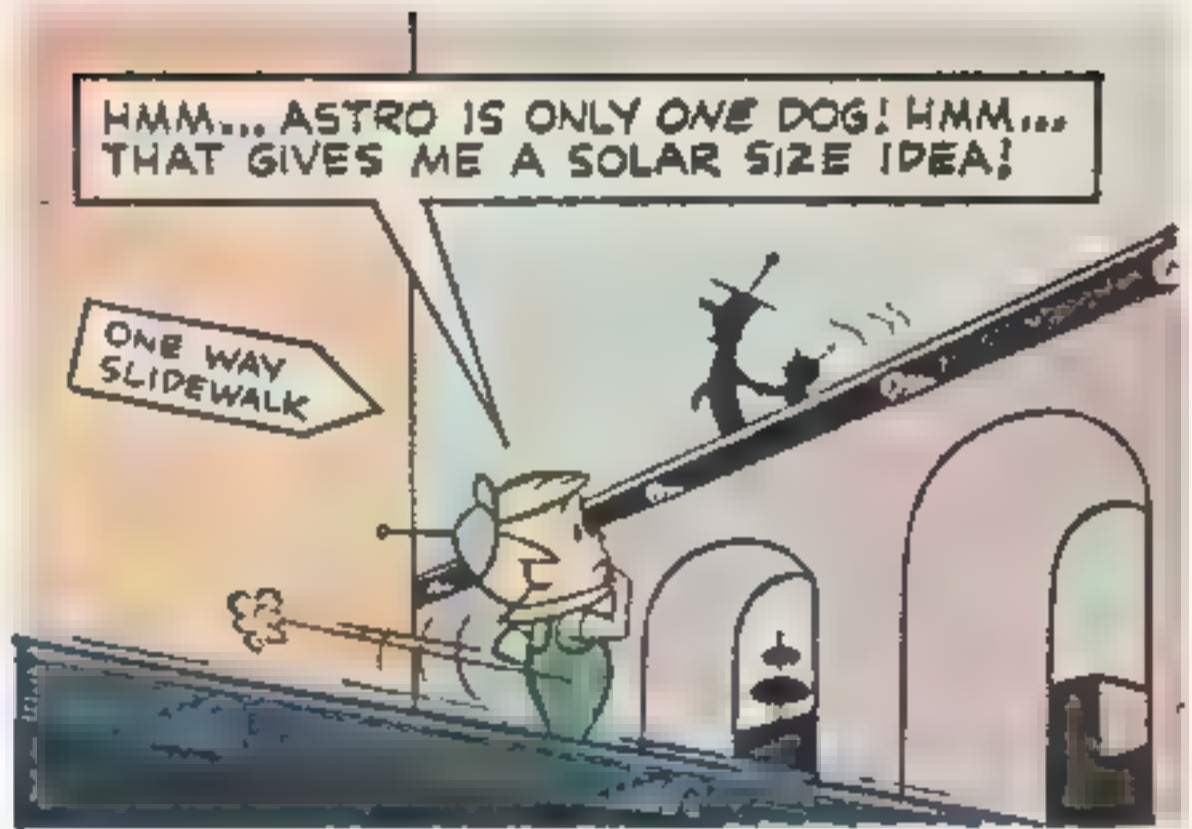
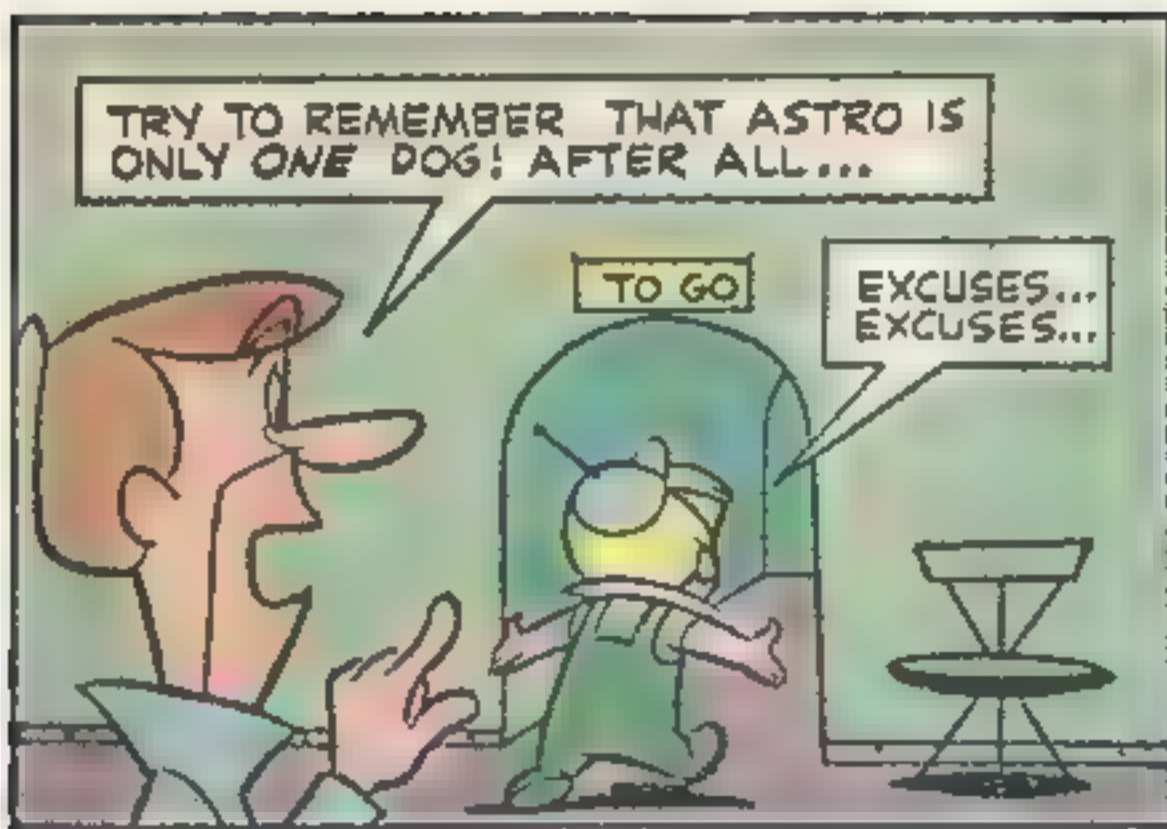


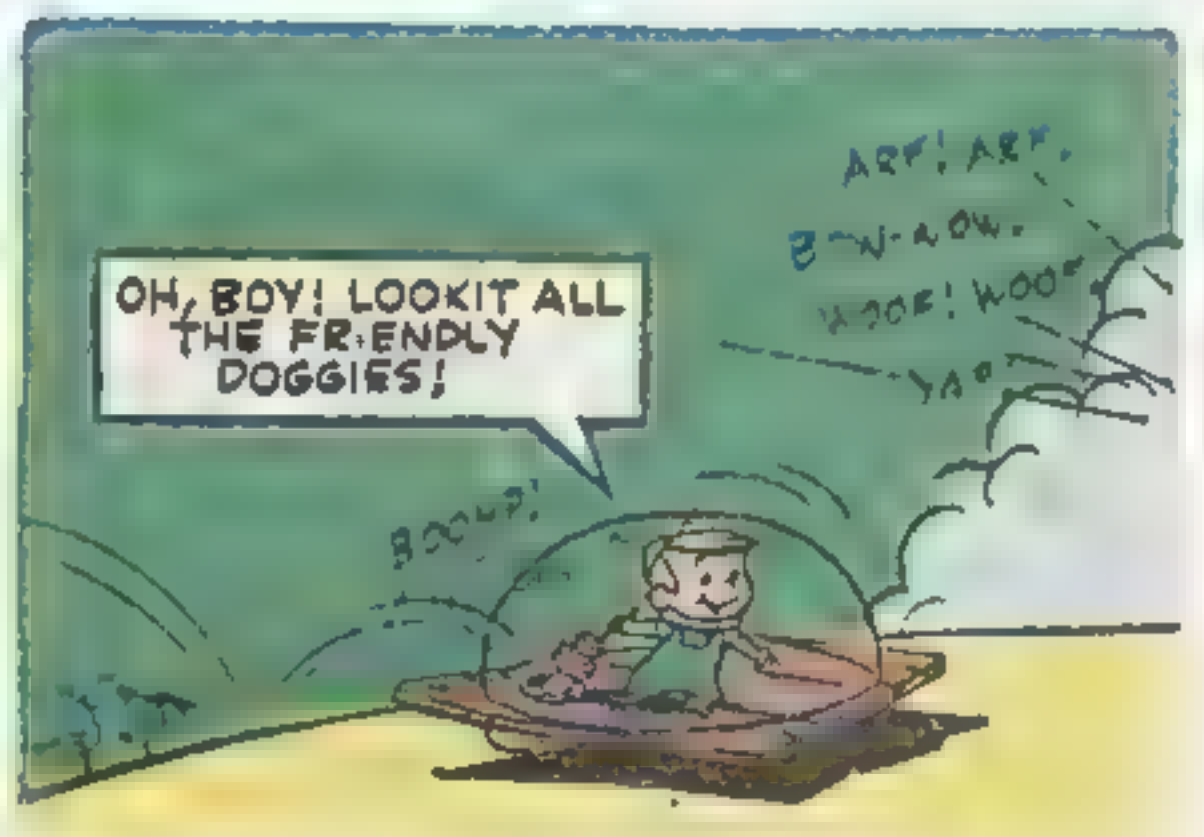
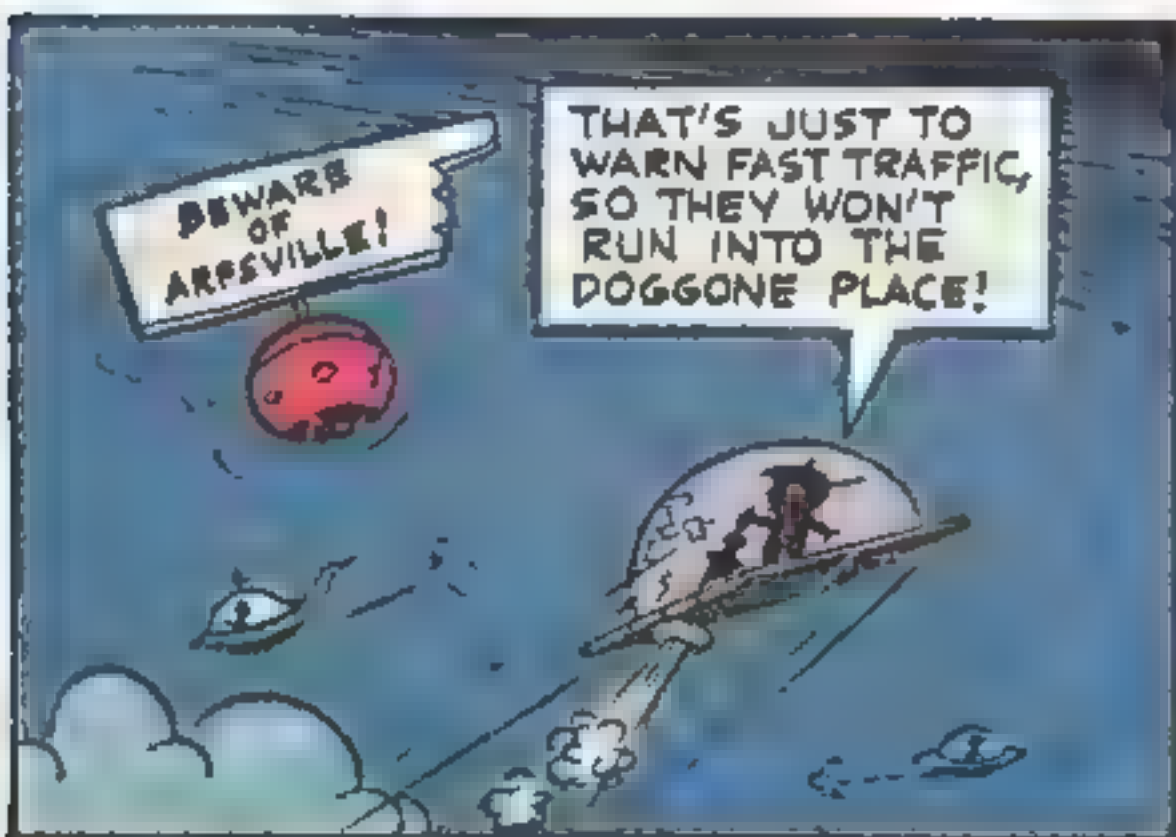
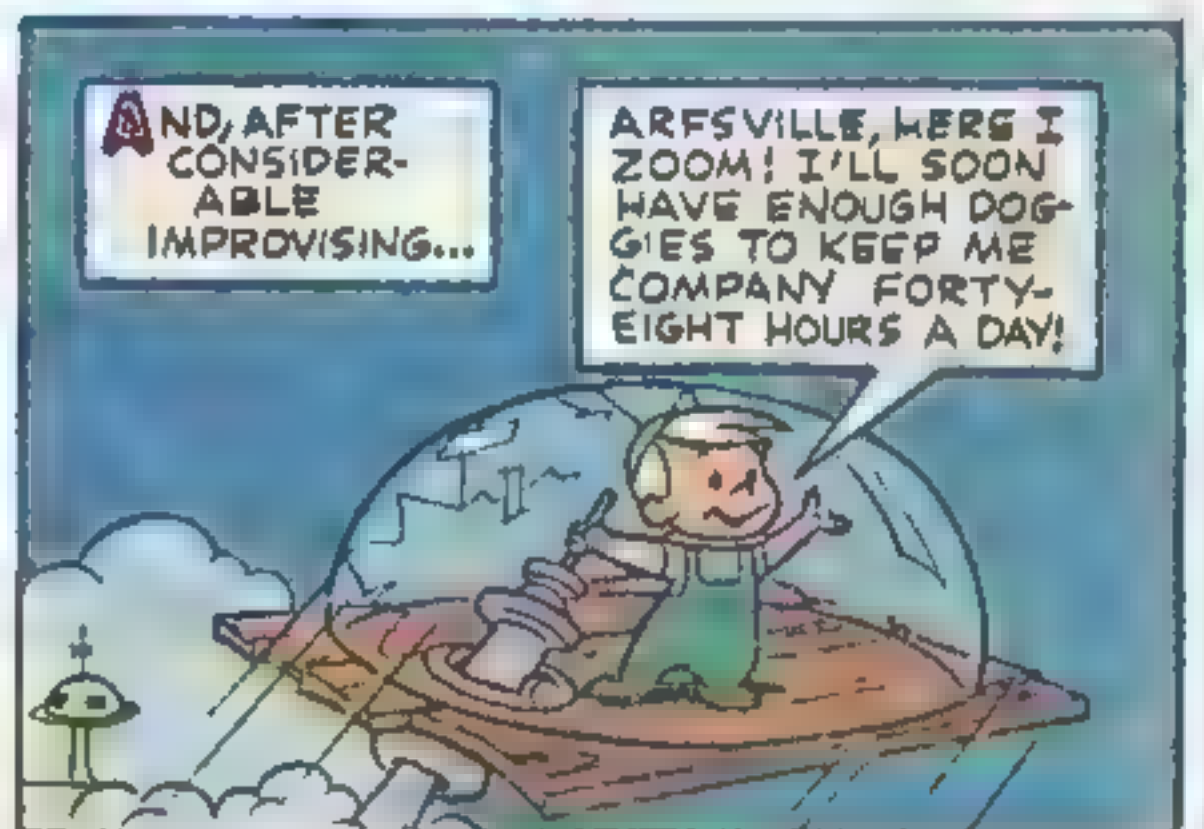
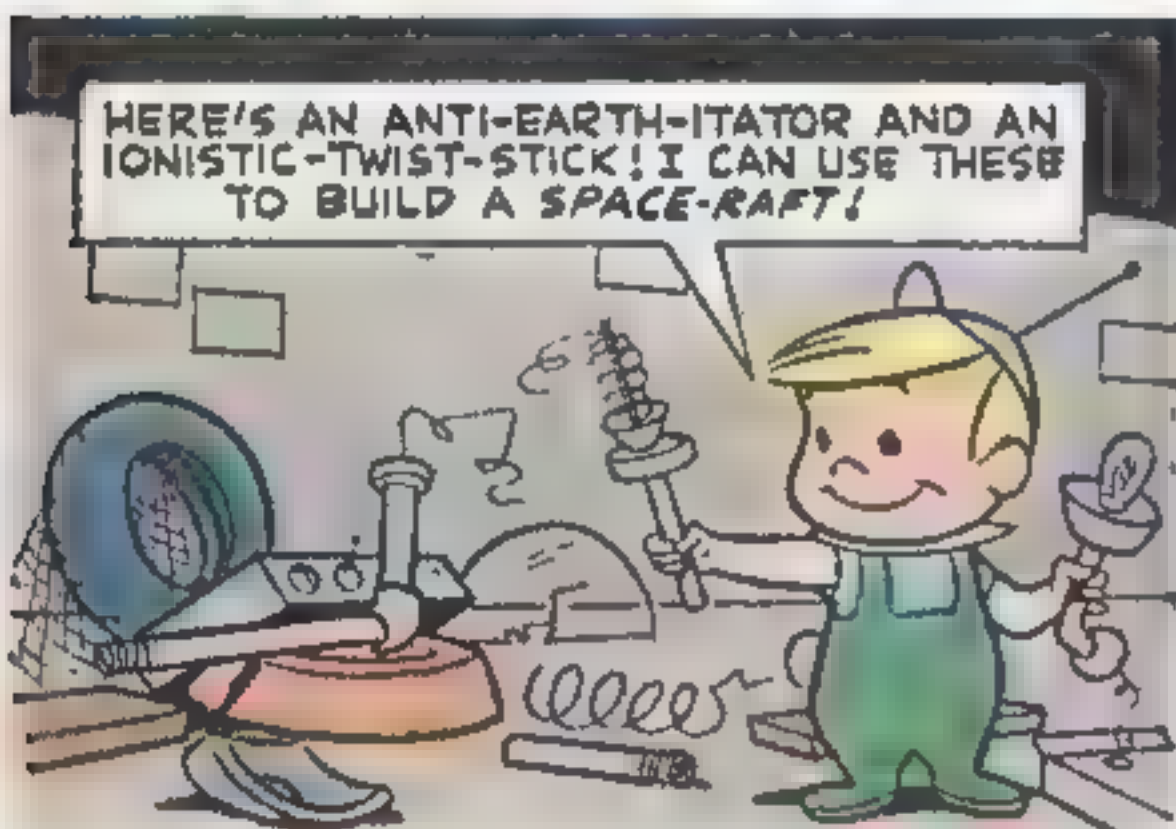
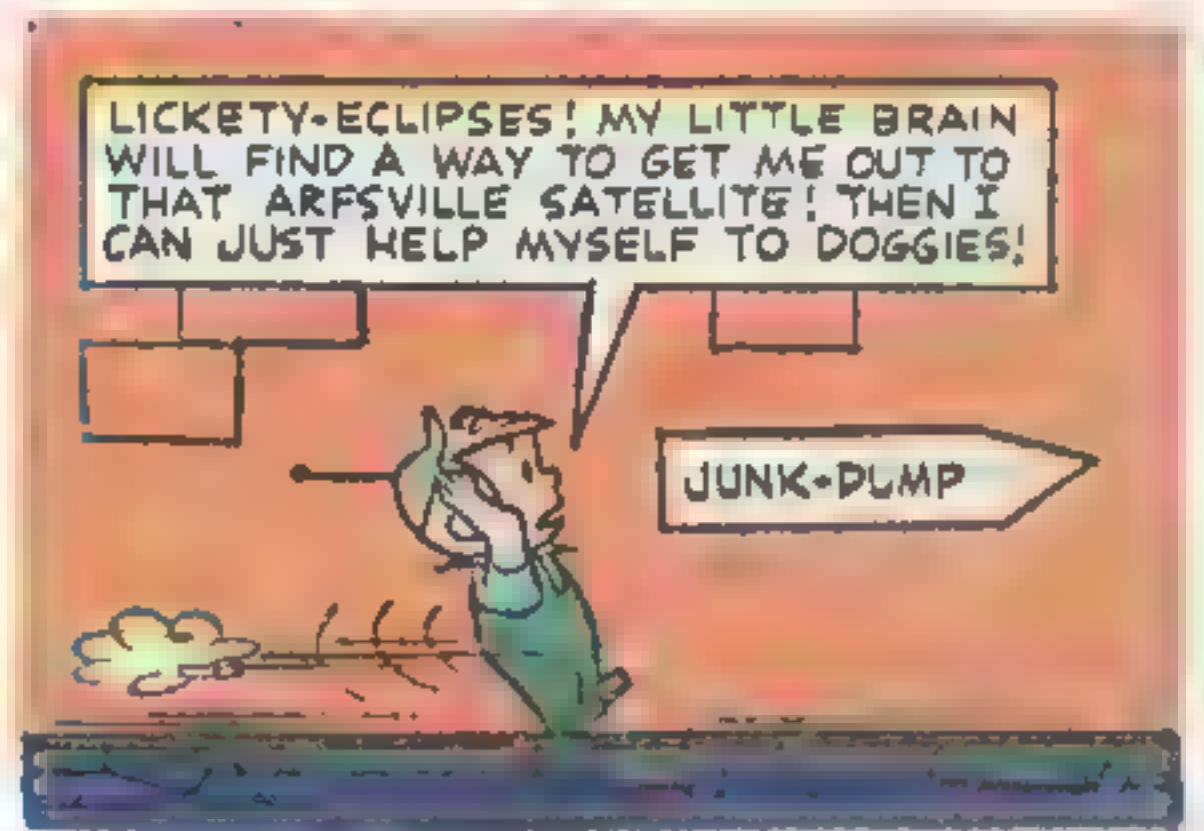
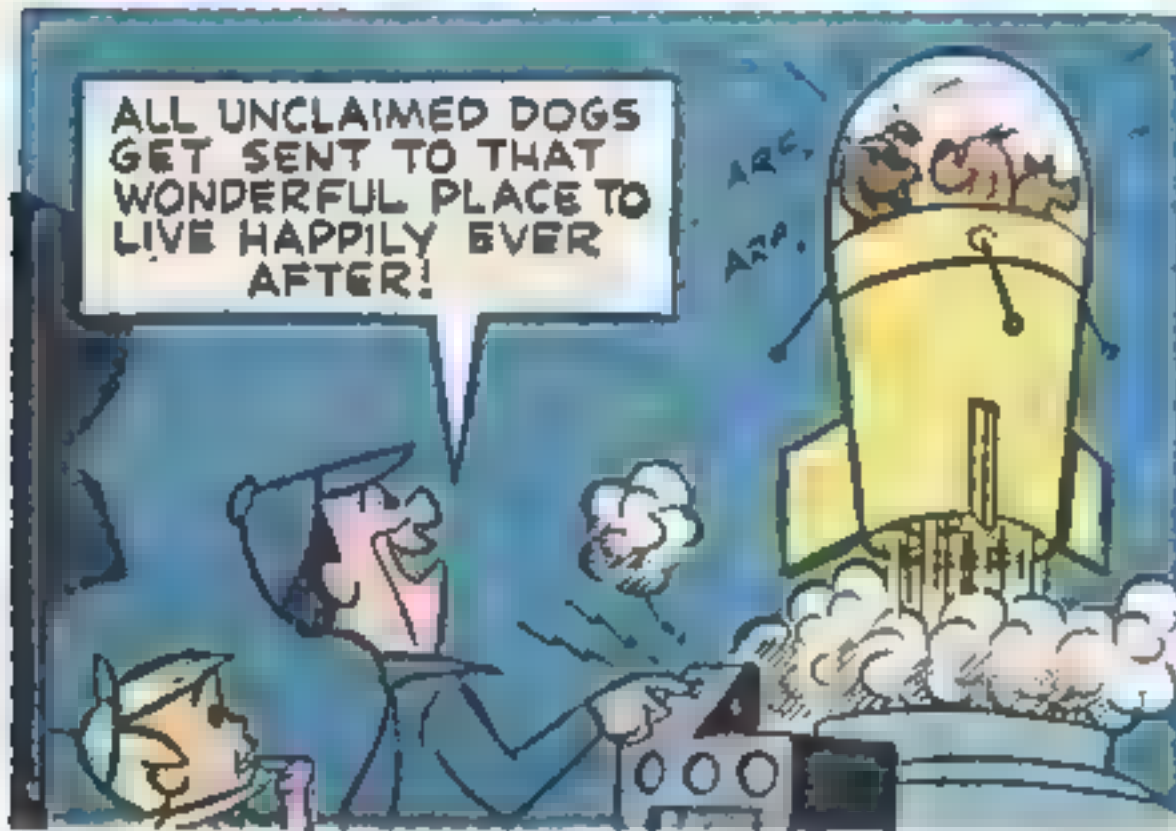
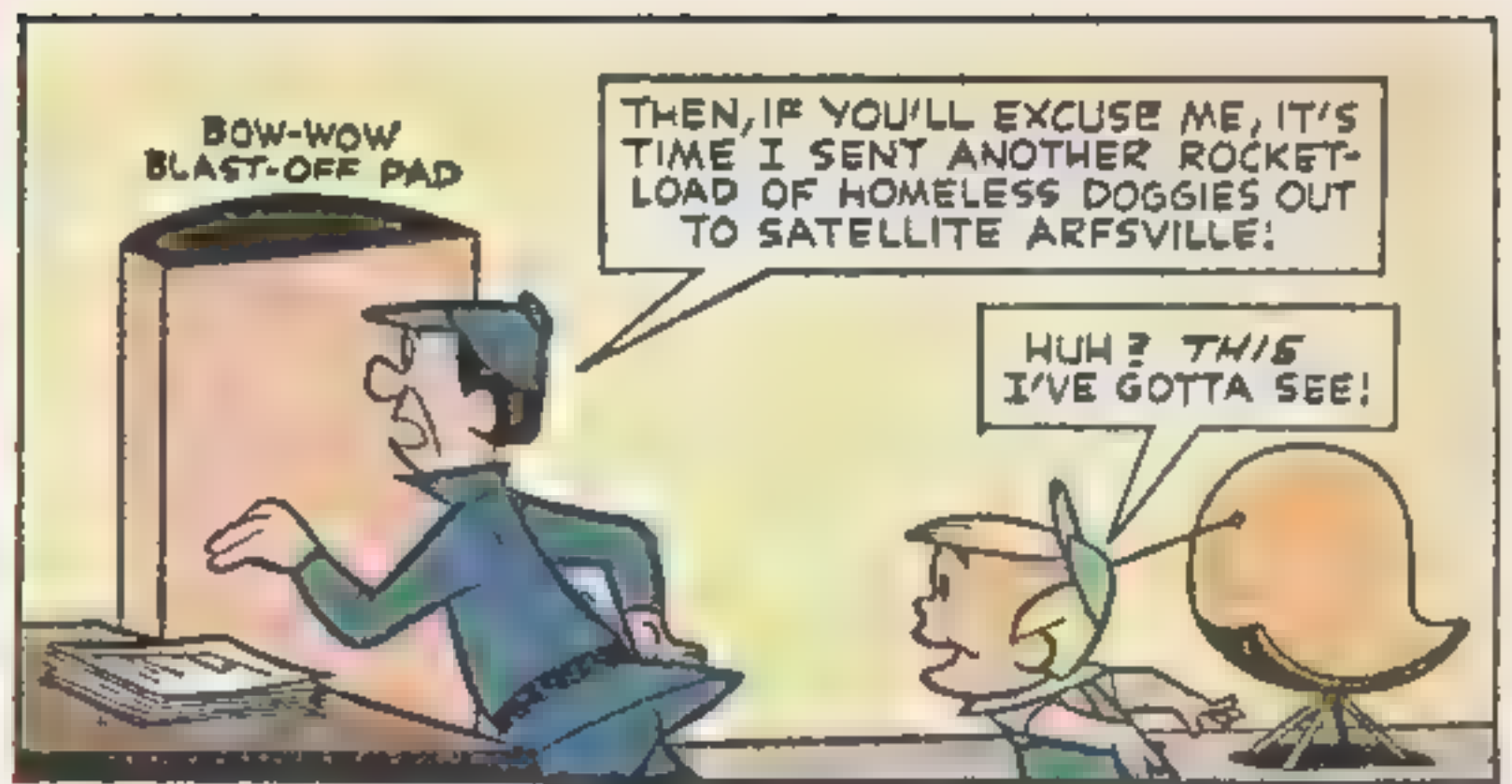
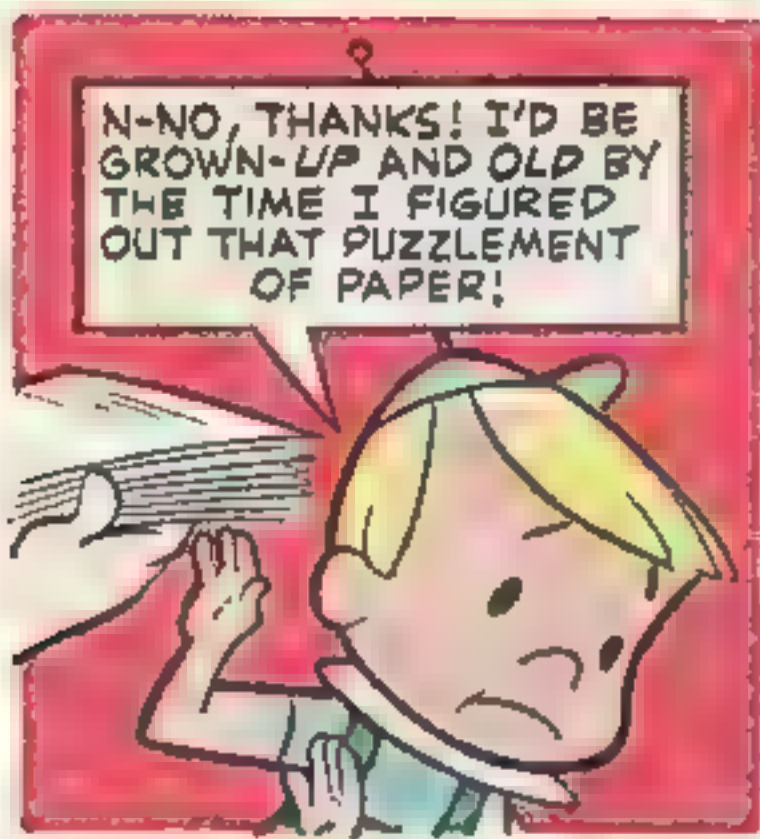
NOW THEN...WHO
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REWARD?

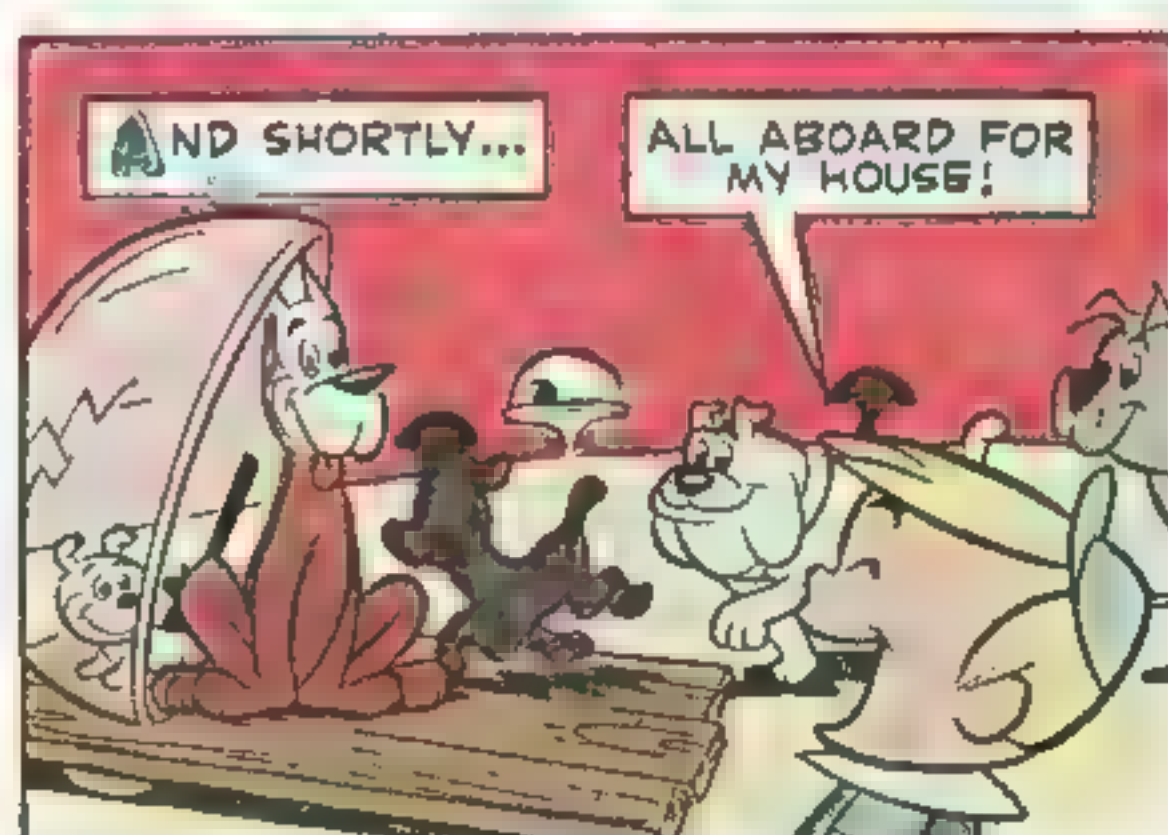
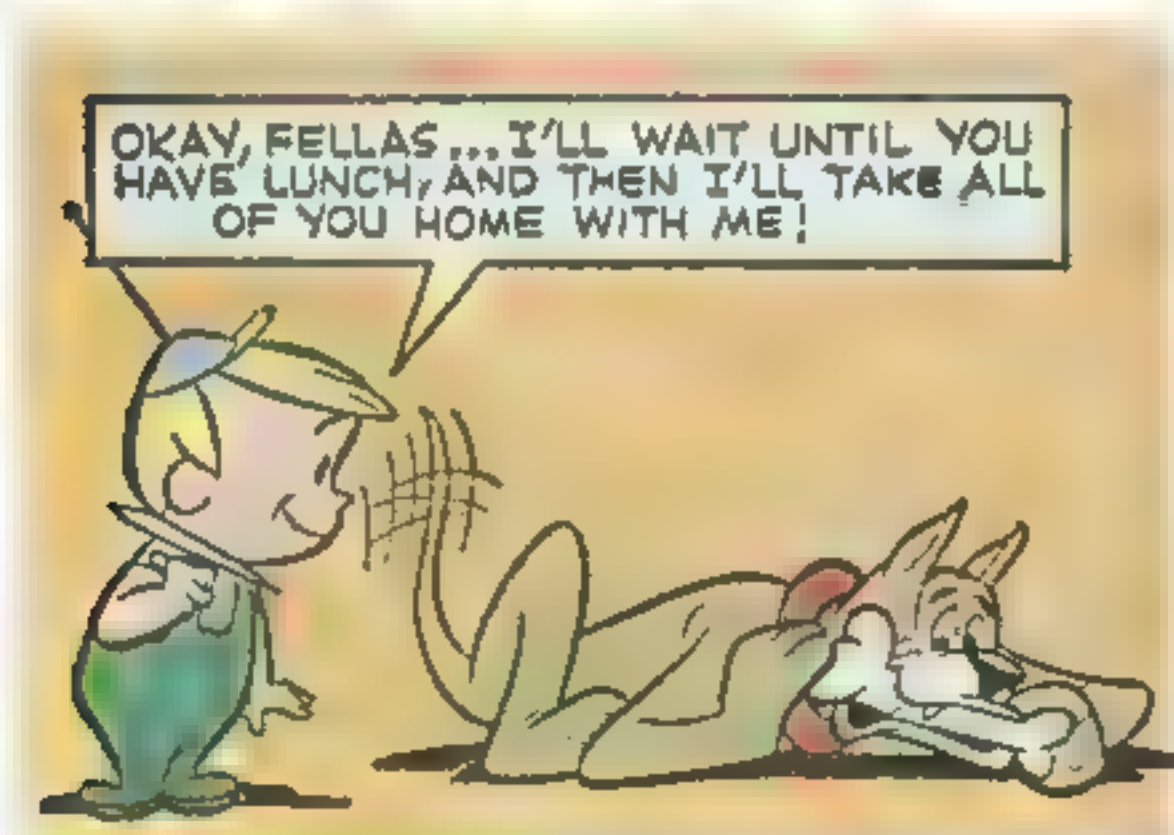
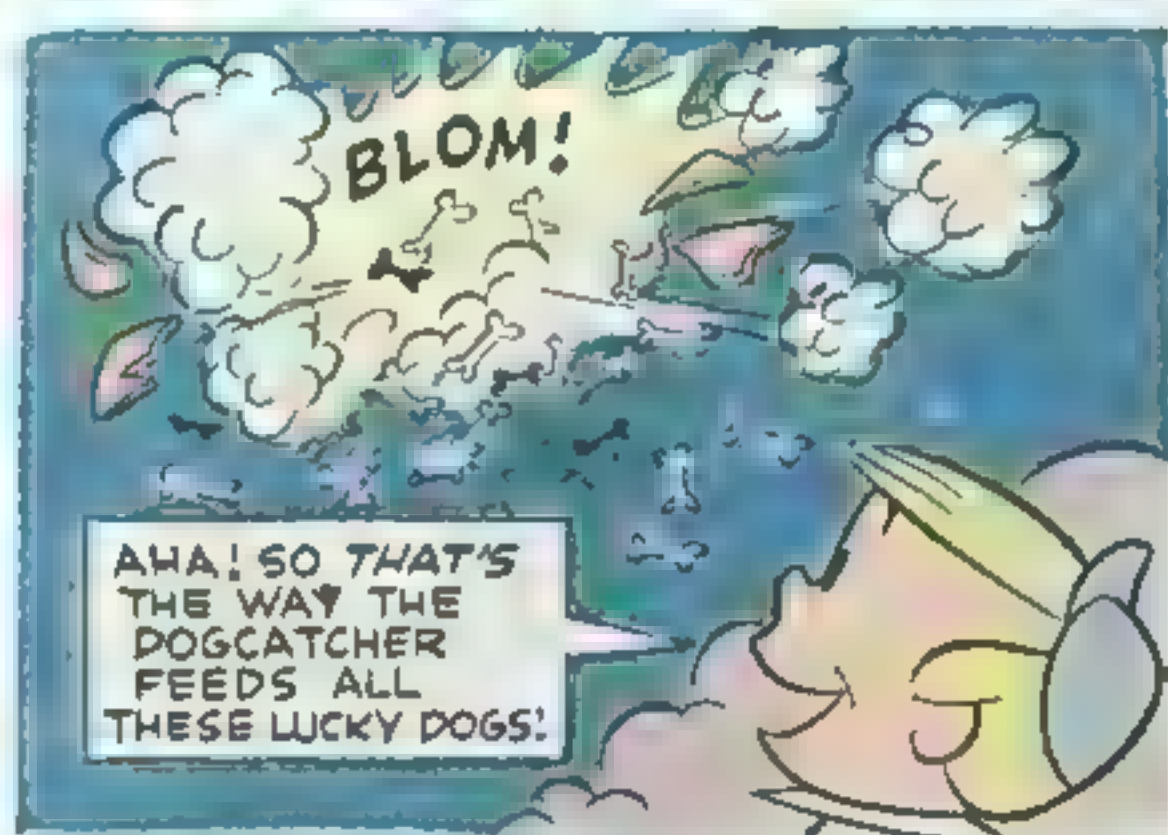
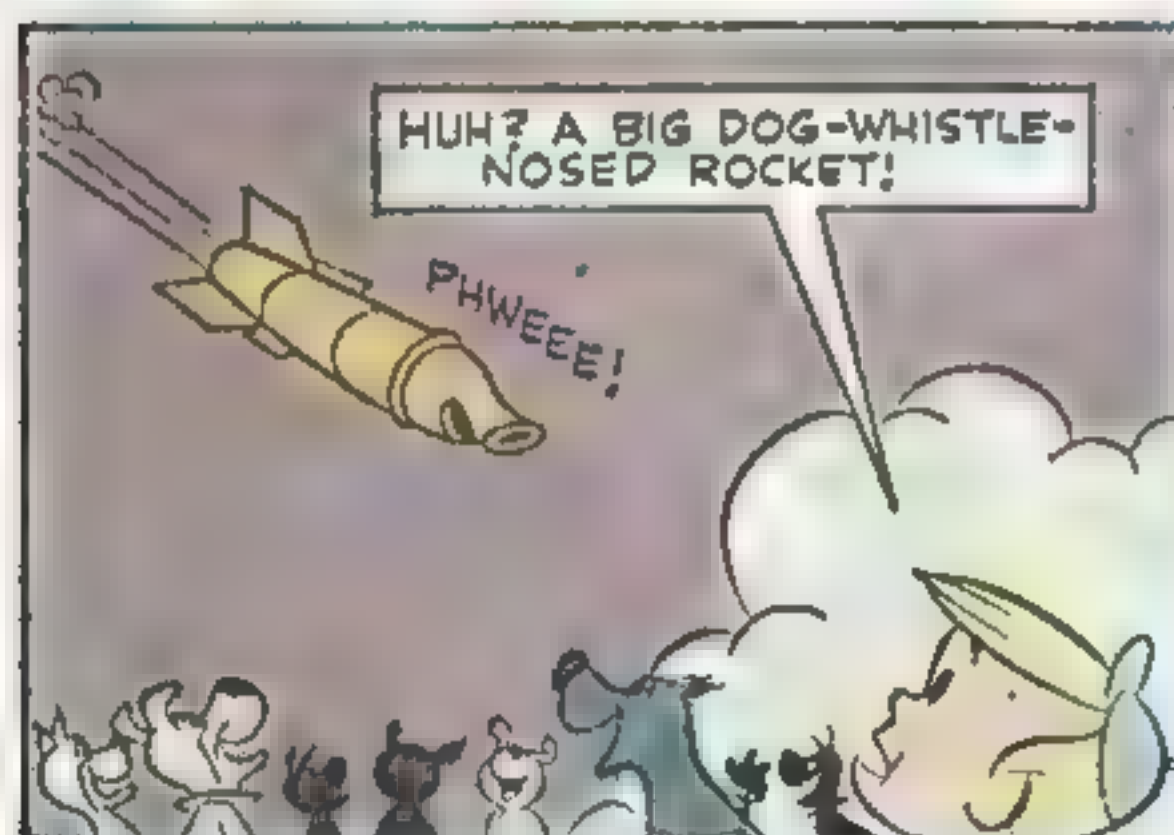
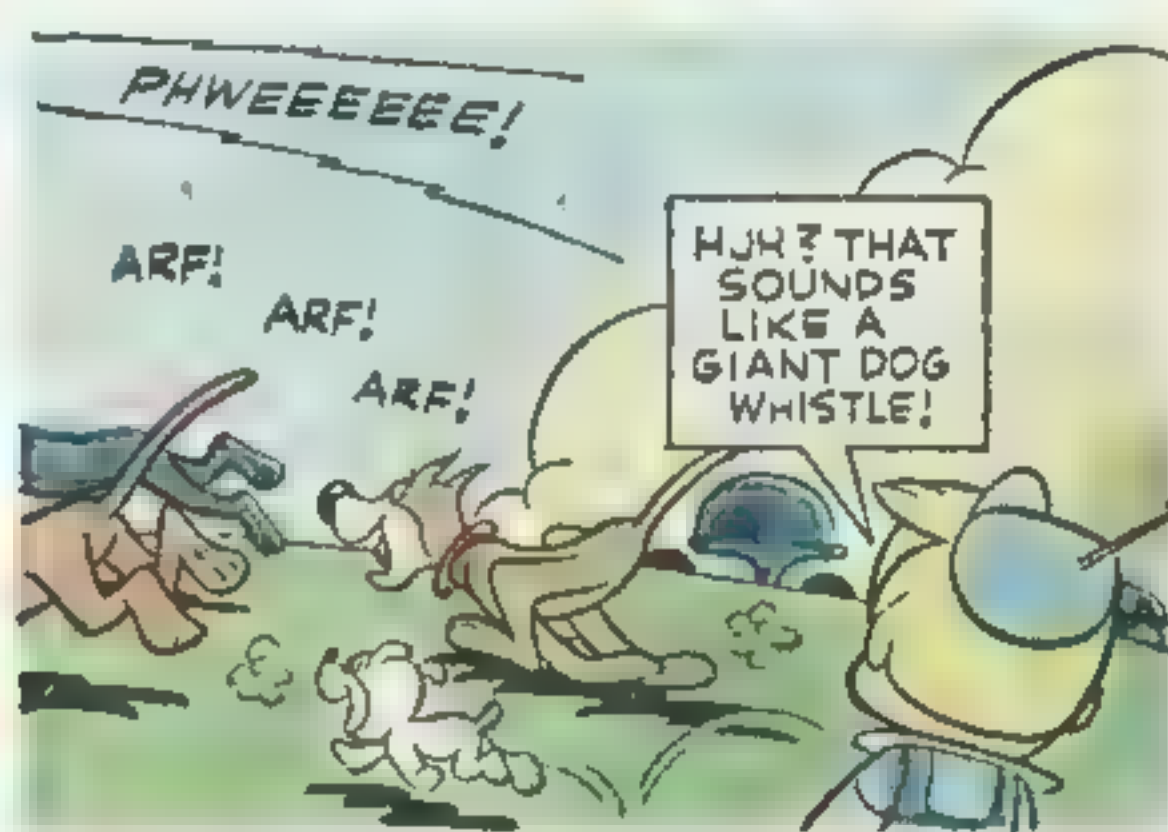
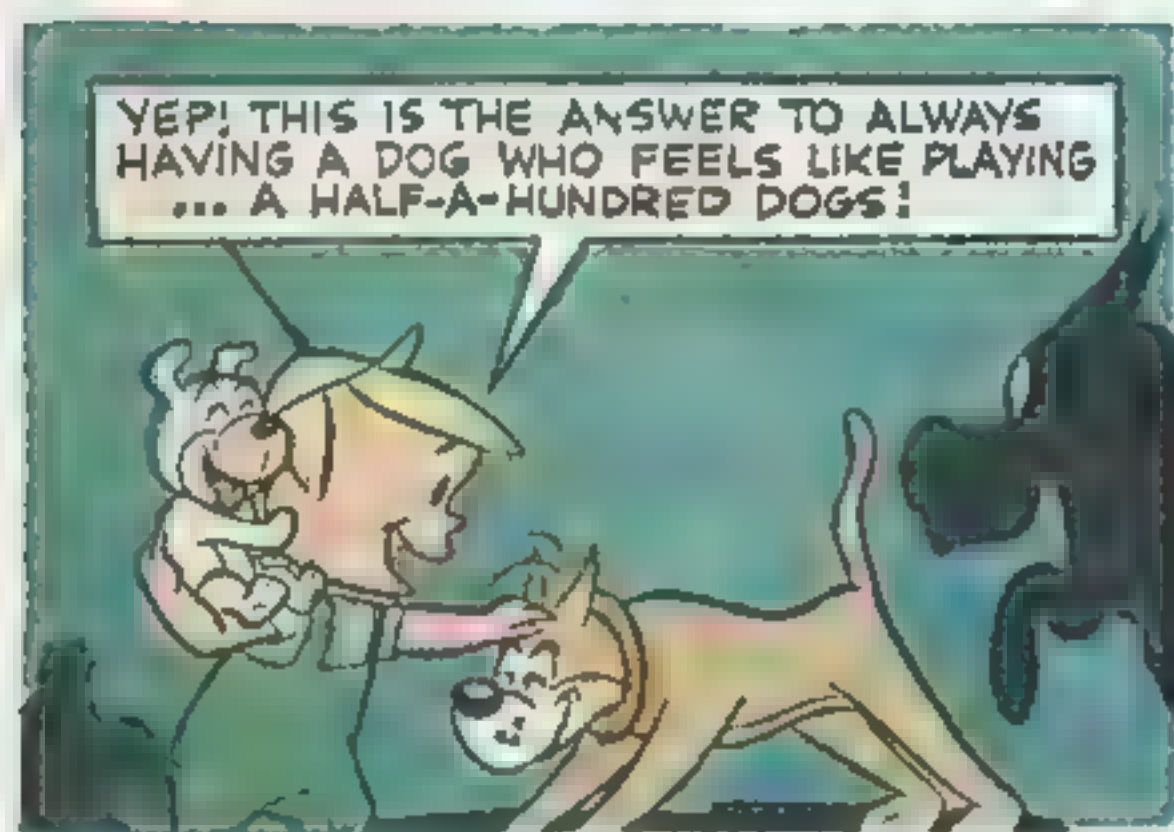
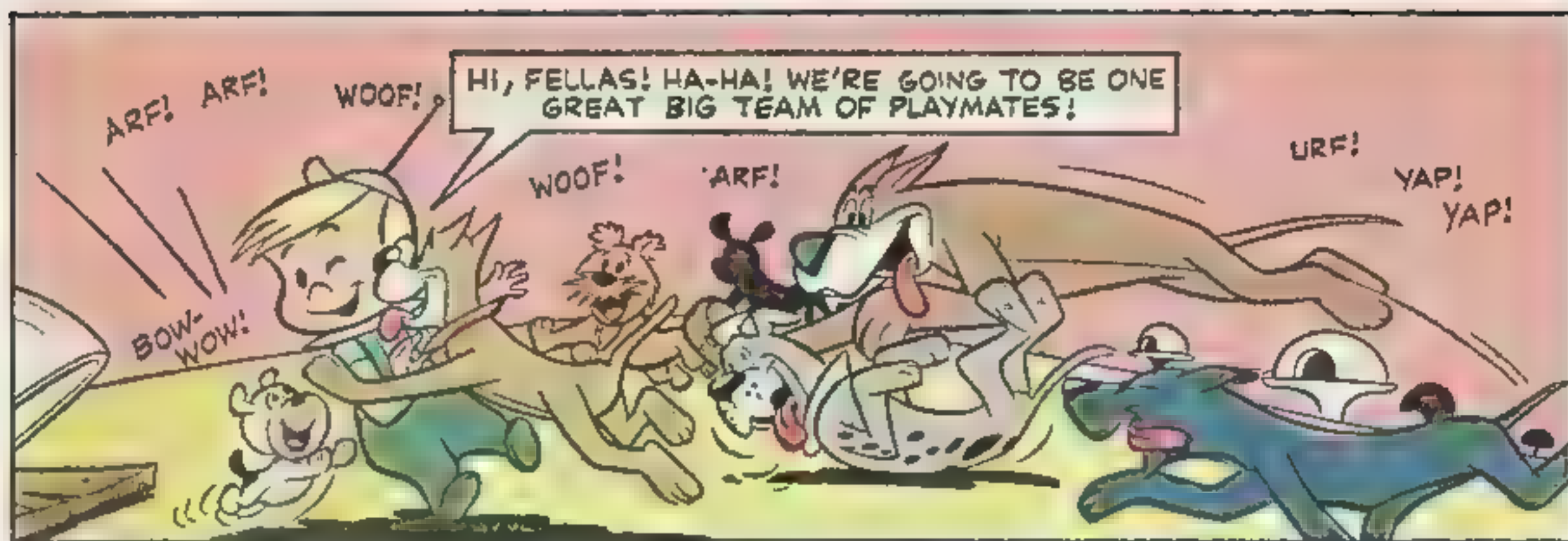


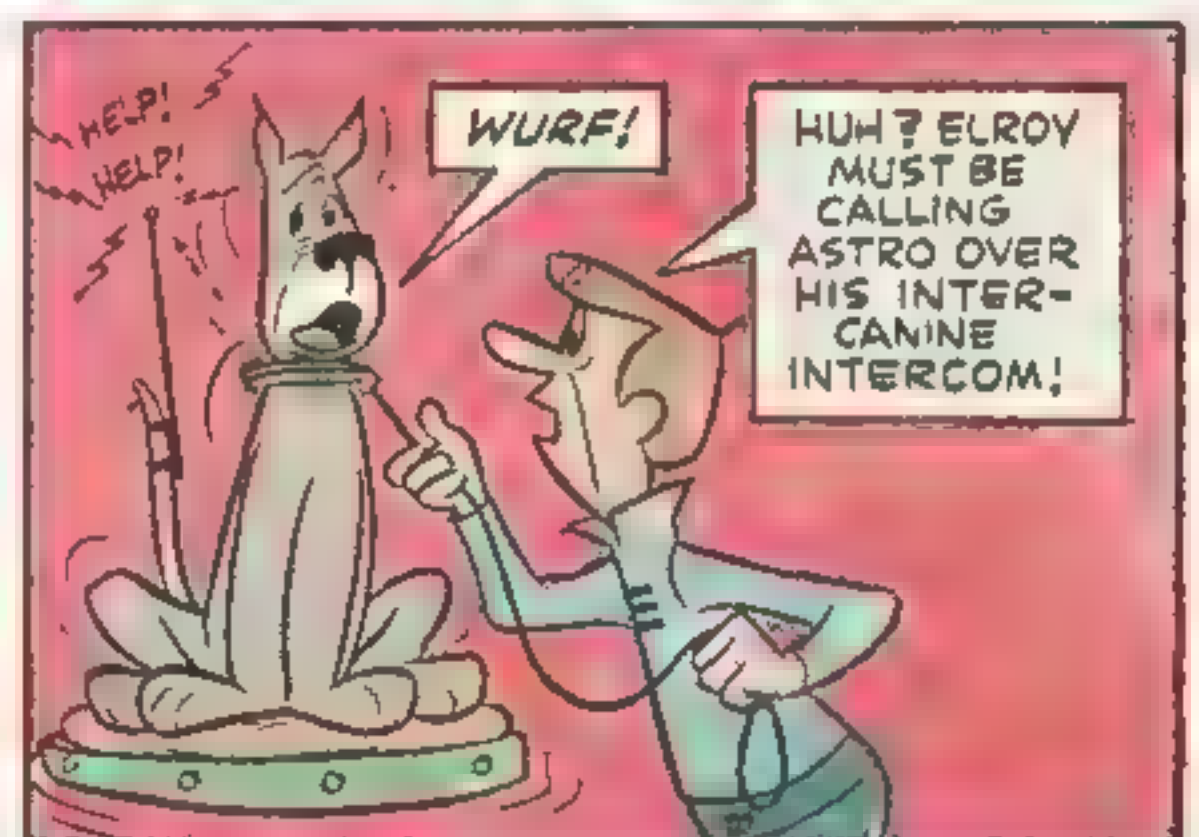
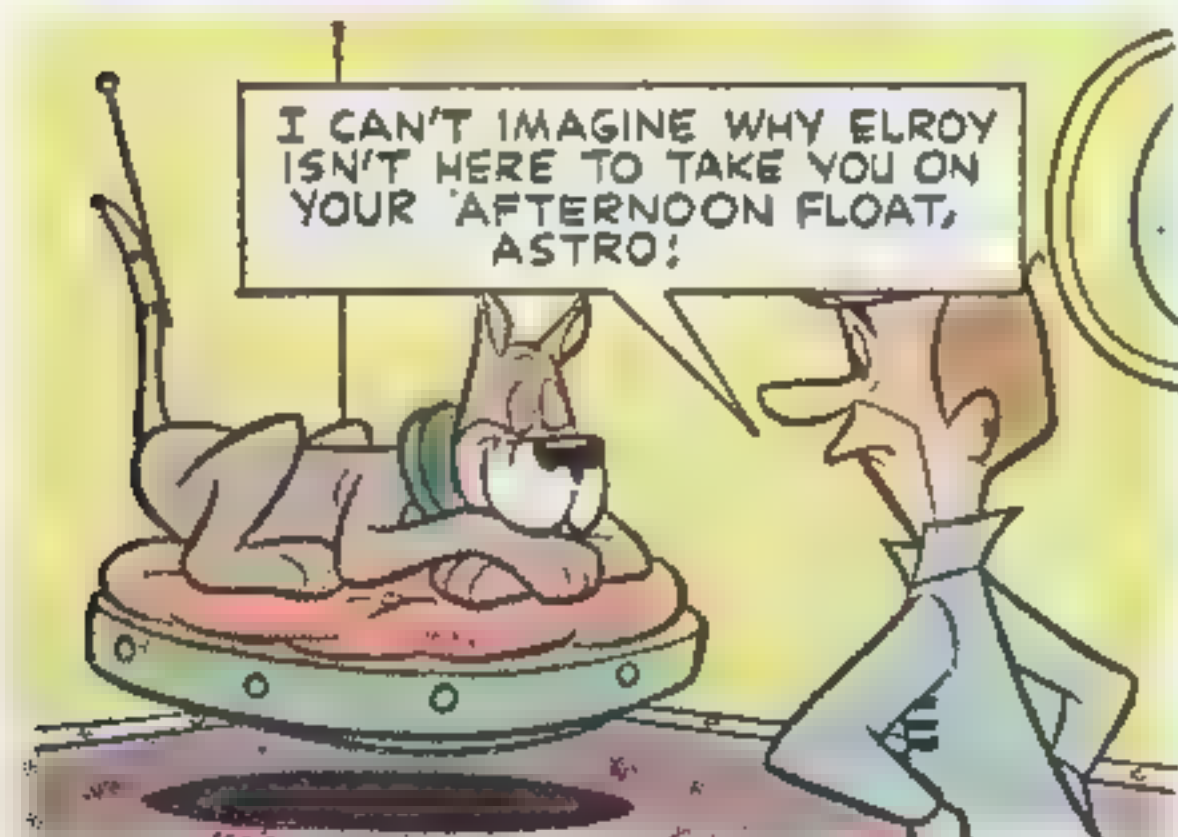
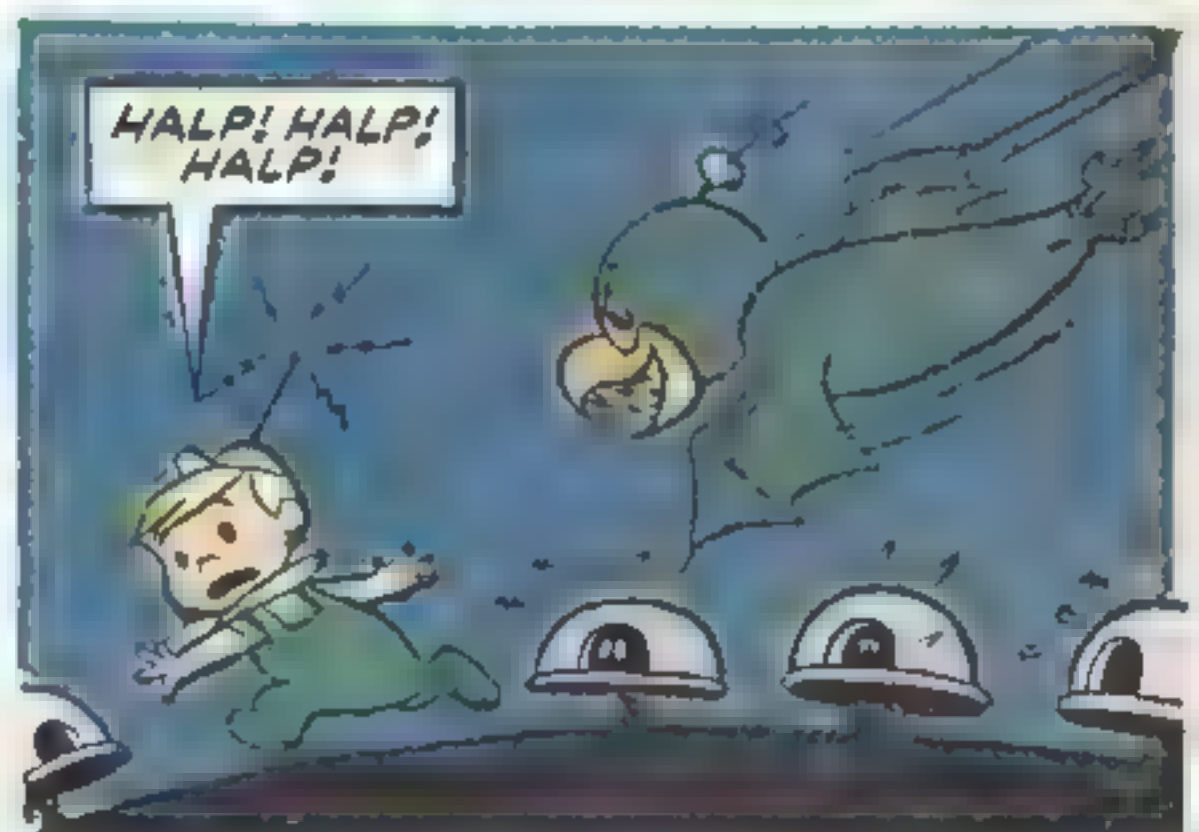
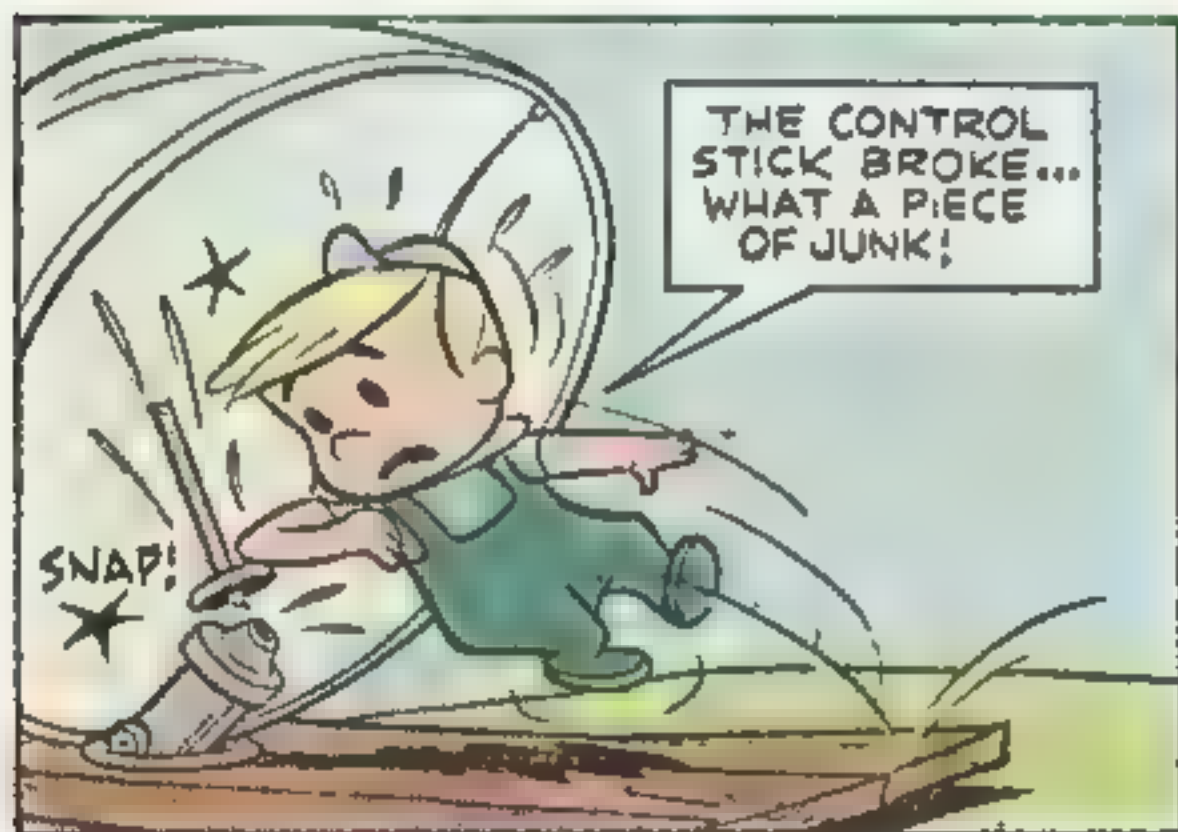
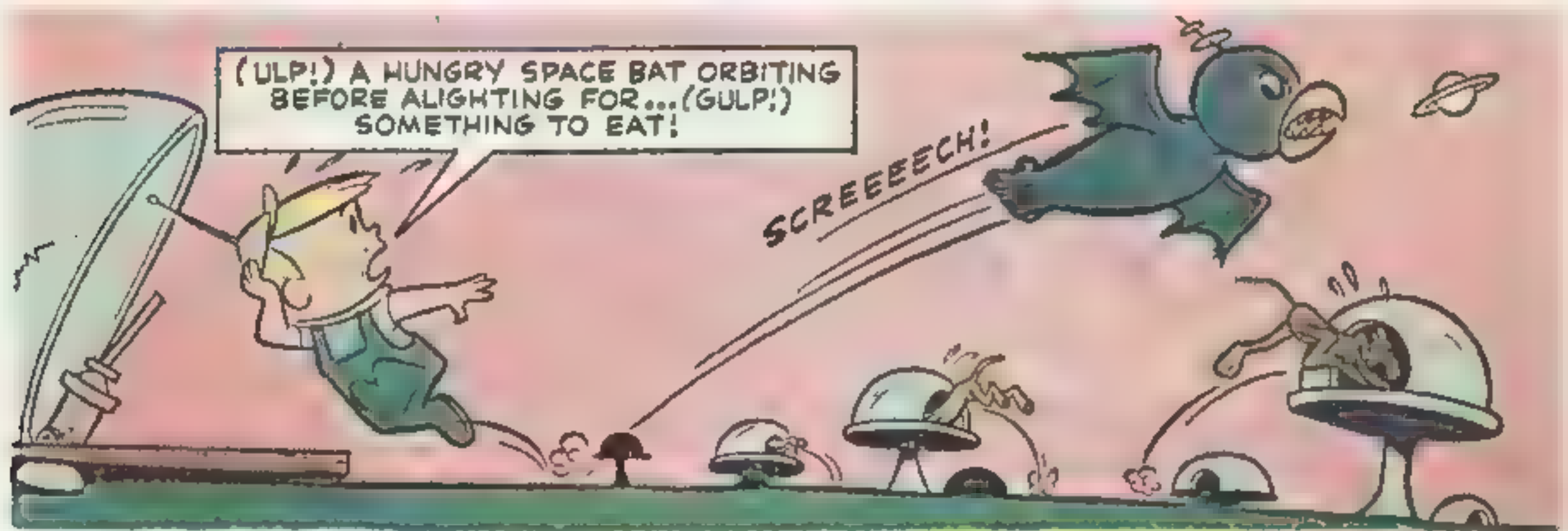
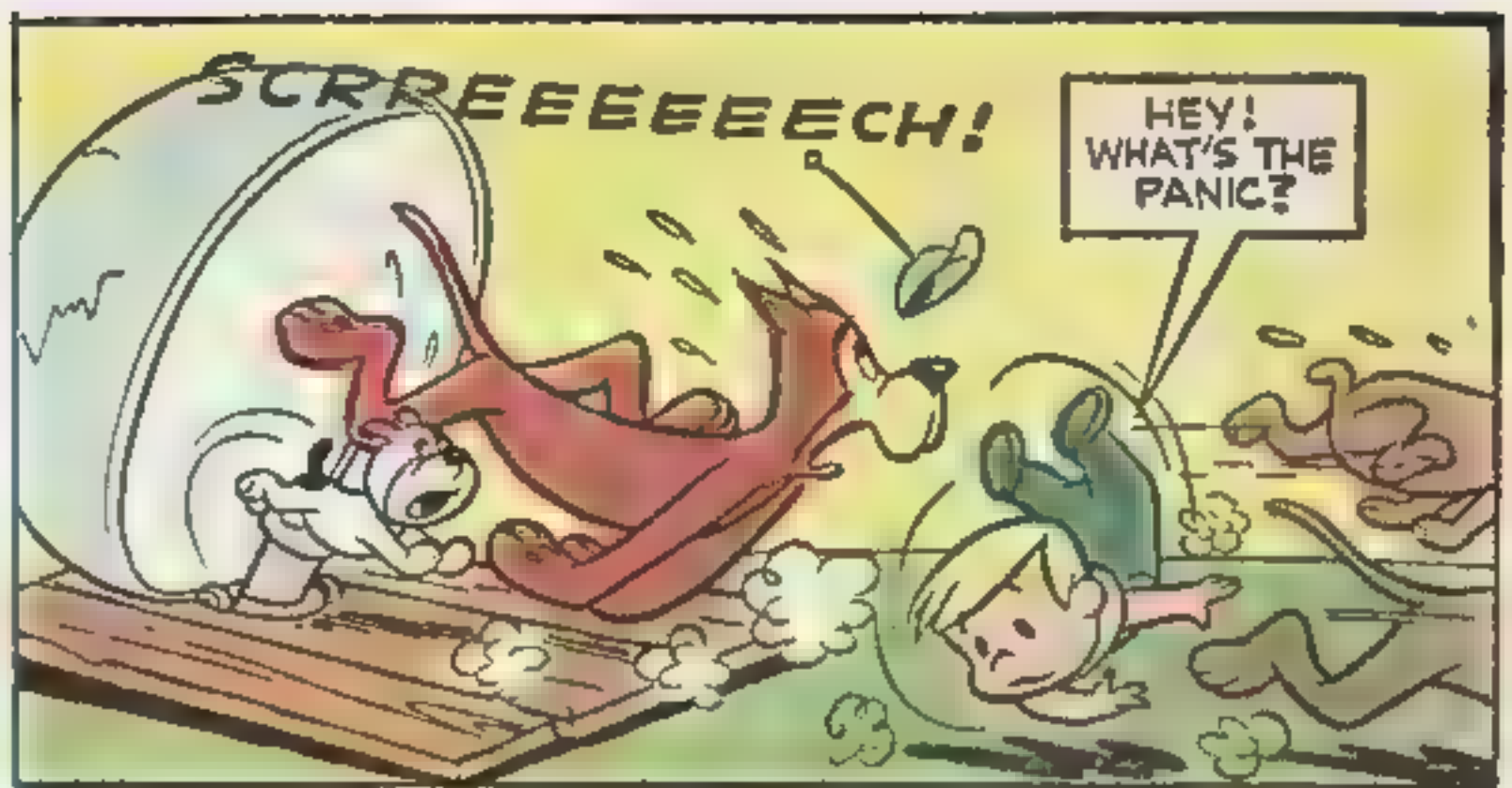
Hanna-Barbera THE JETSONS
A BOY'S BEST DOG IS HIS FRIEND

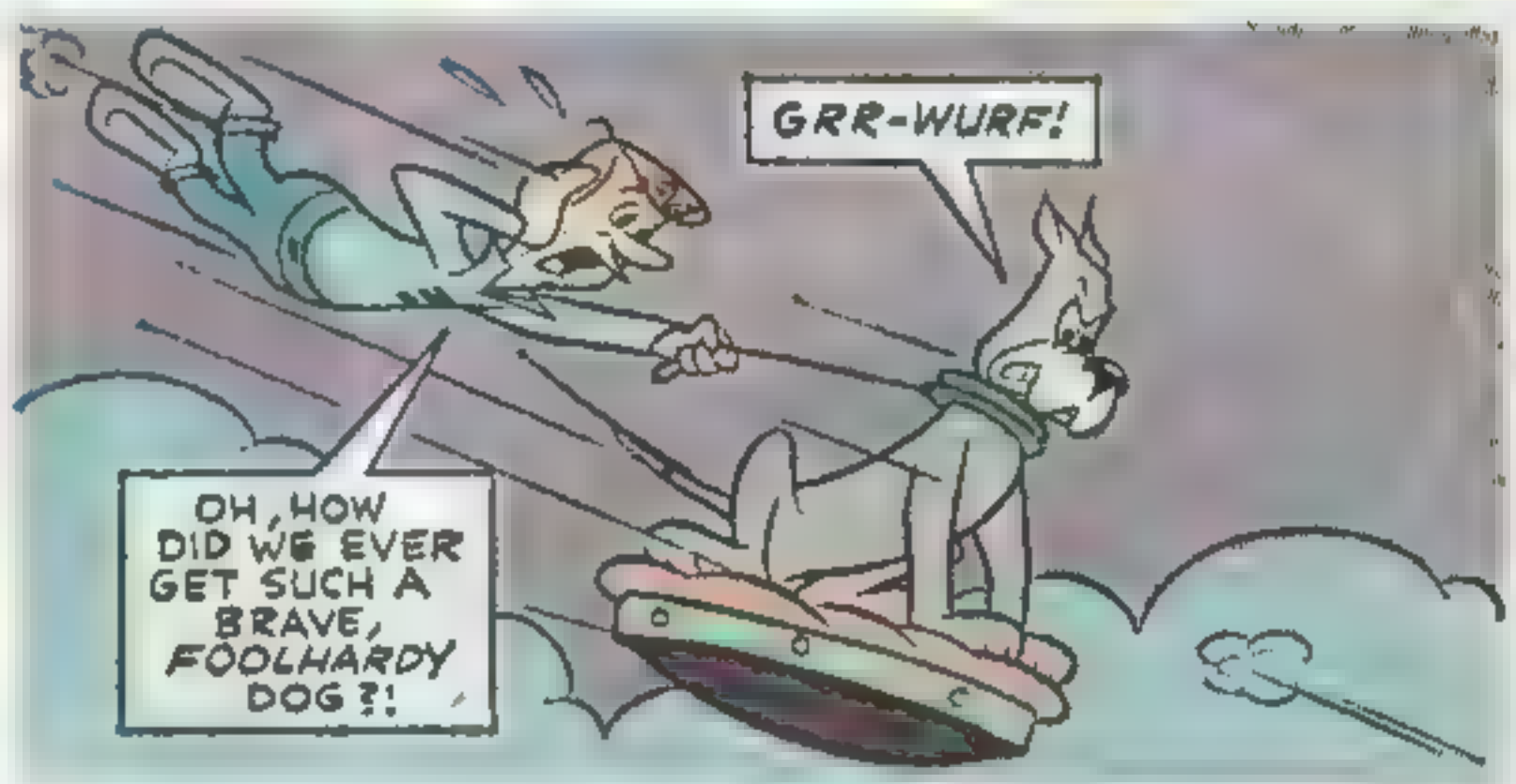
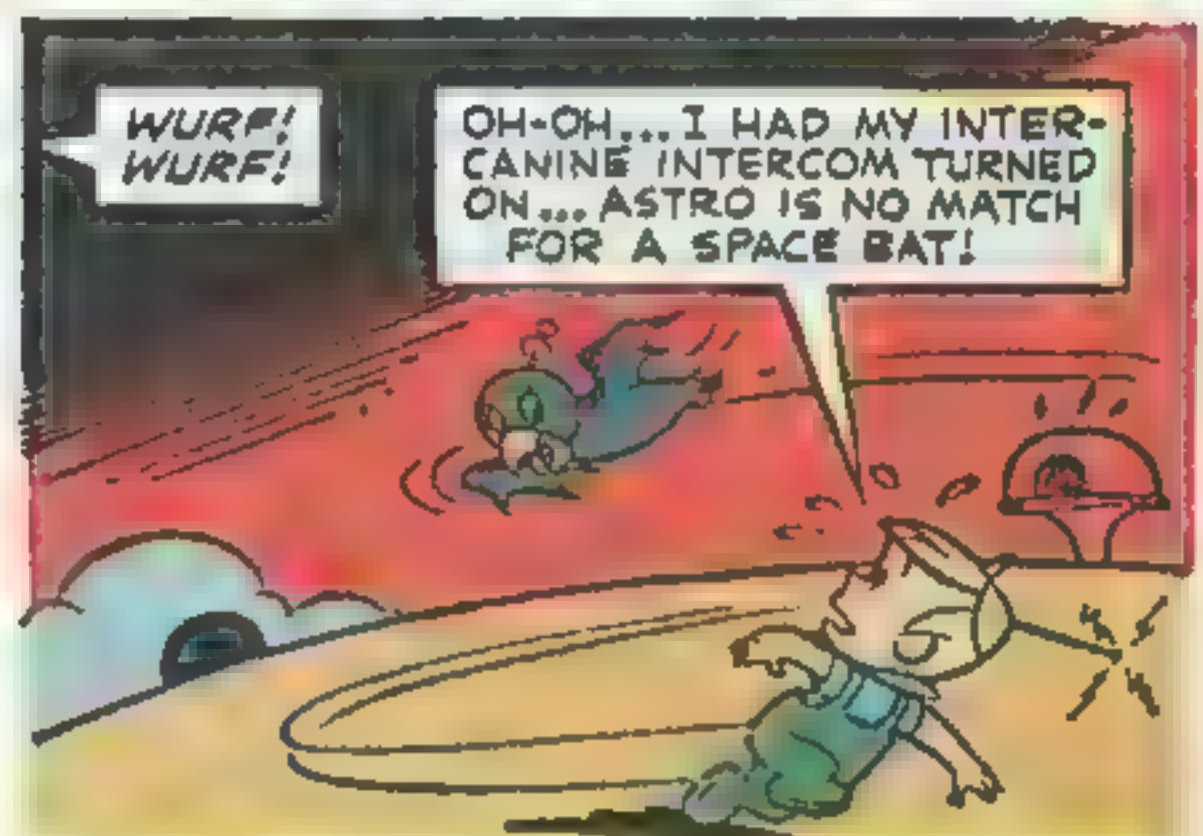
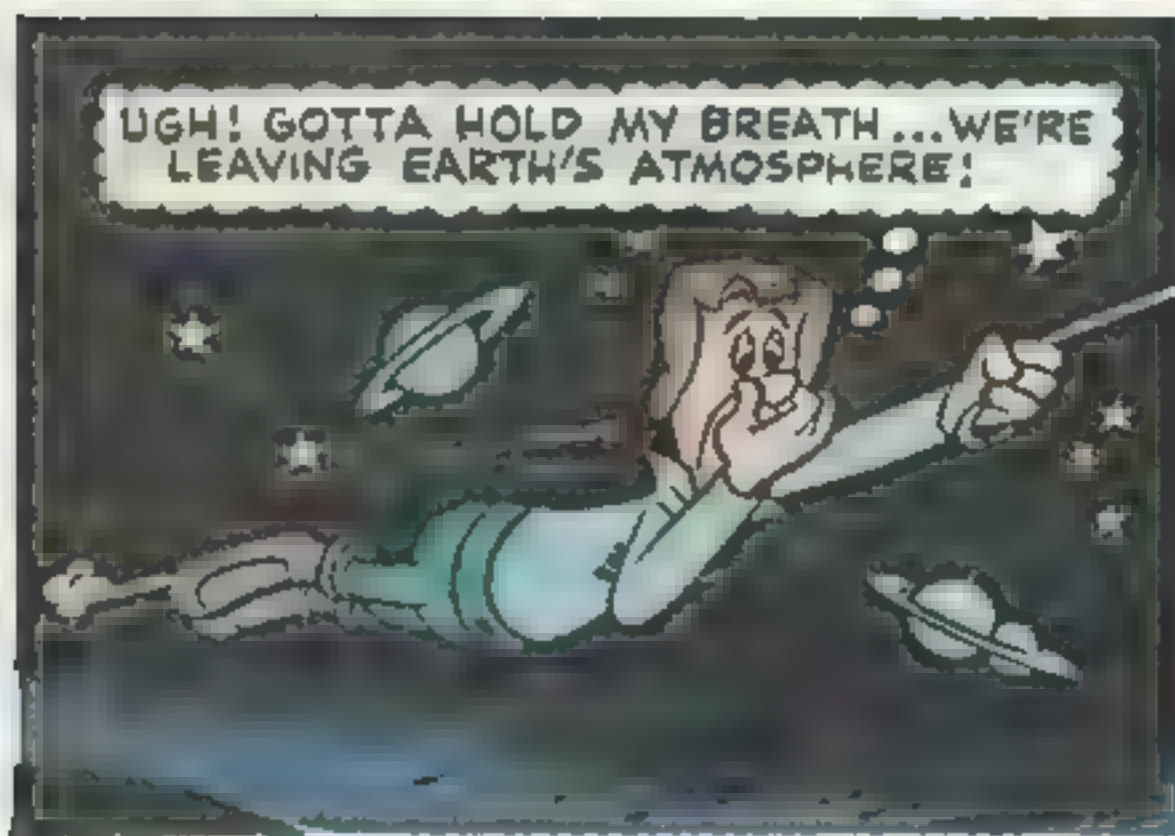
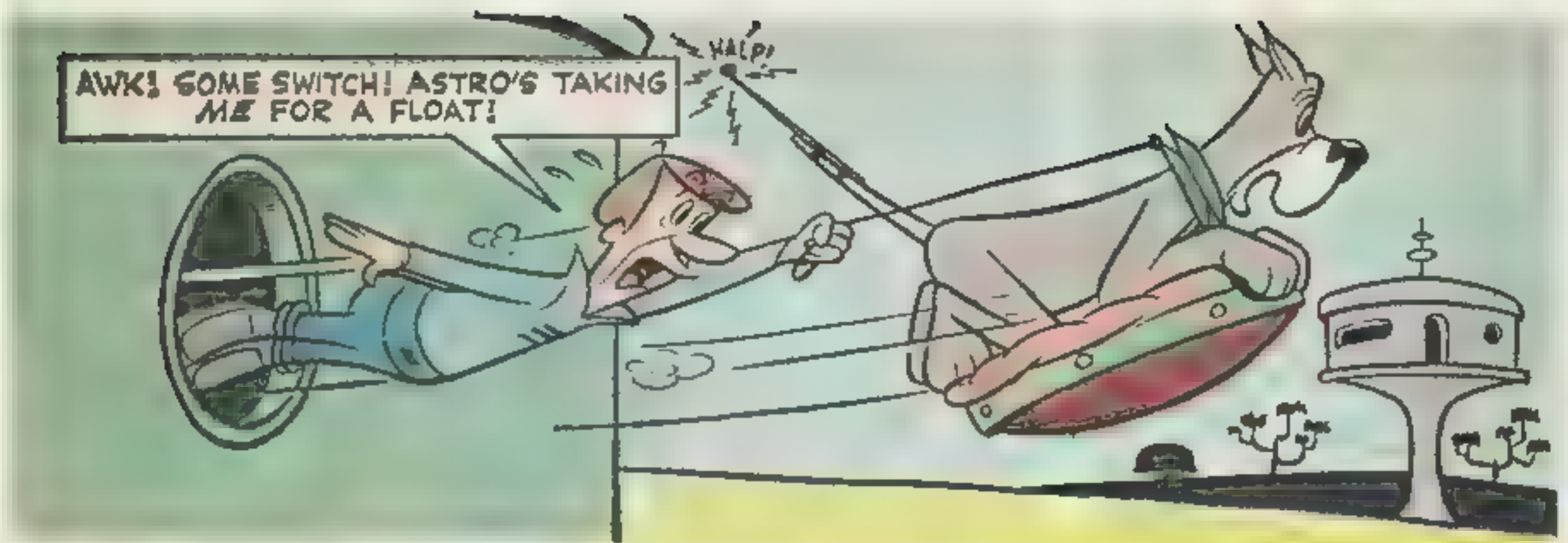


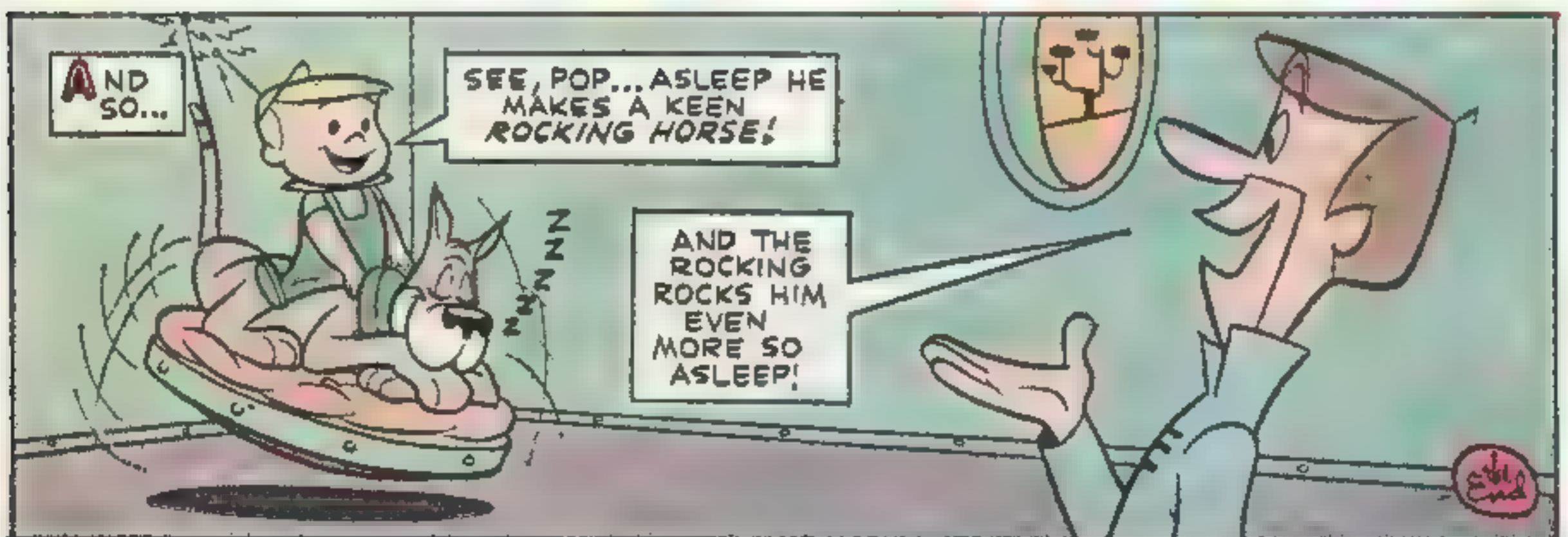
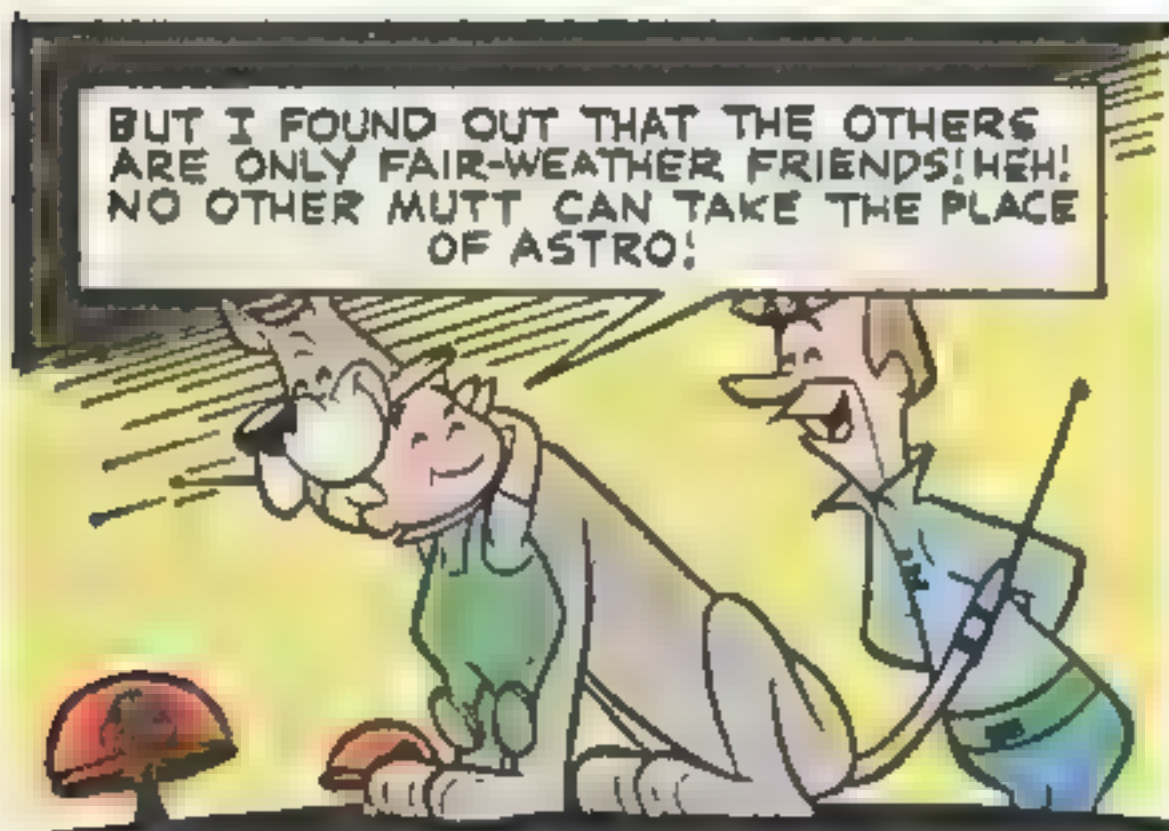
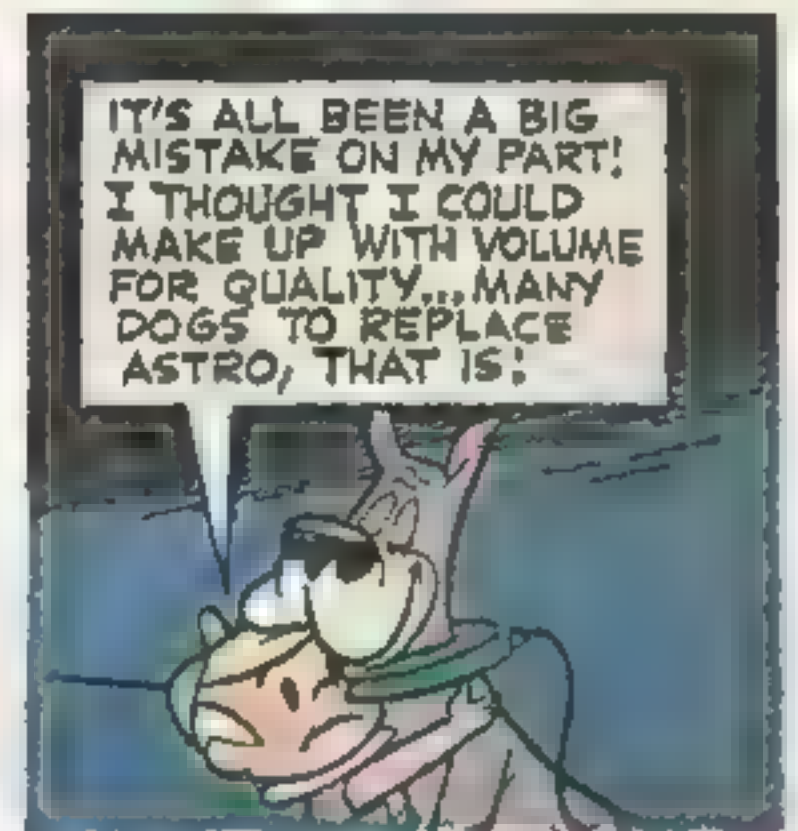
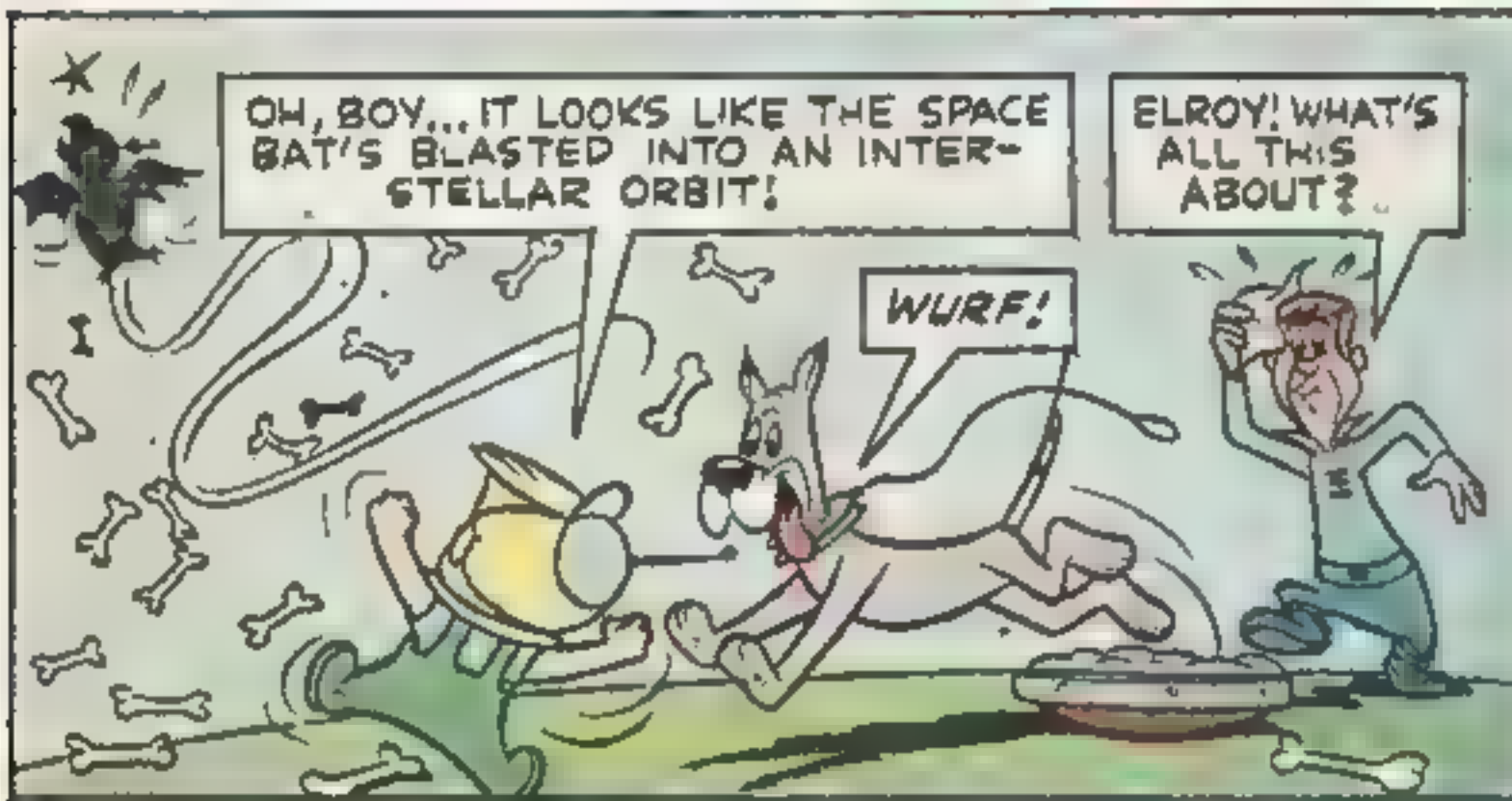
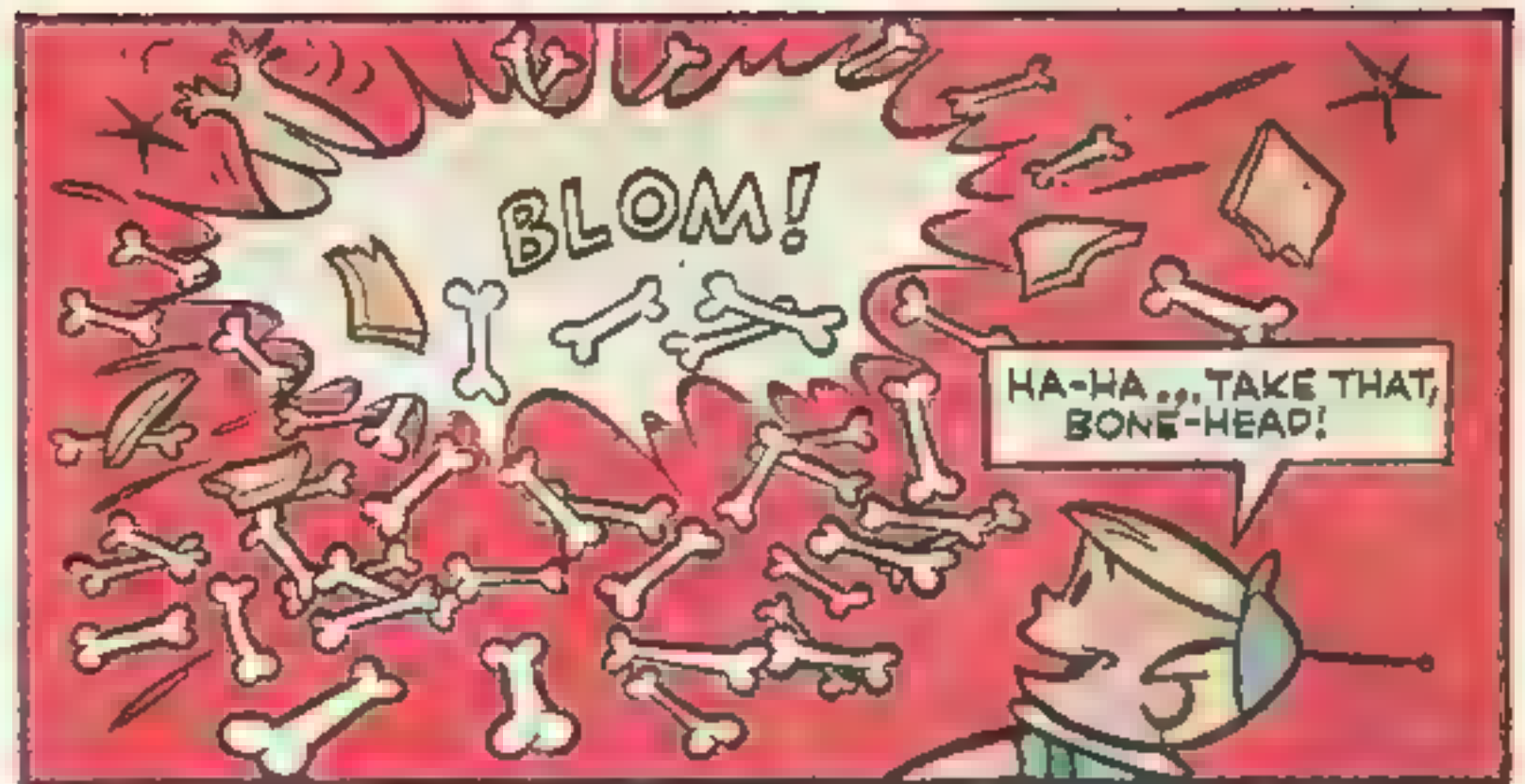
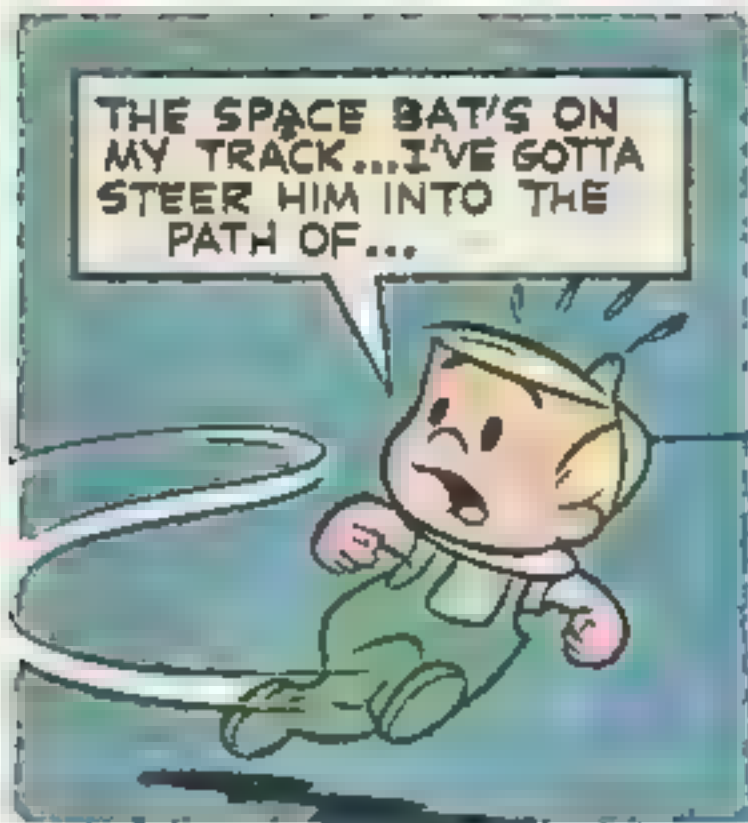






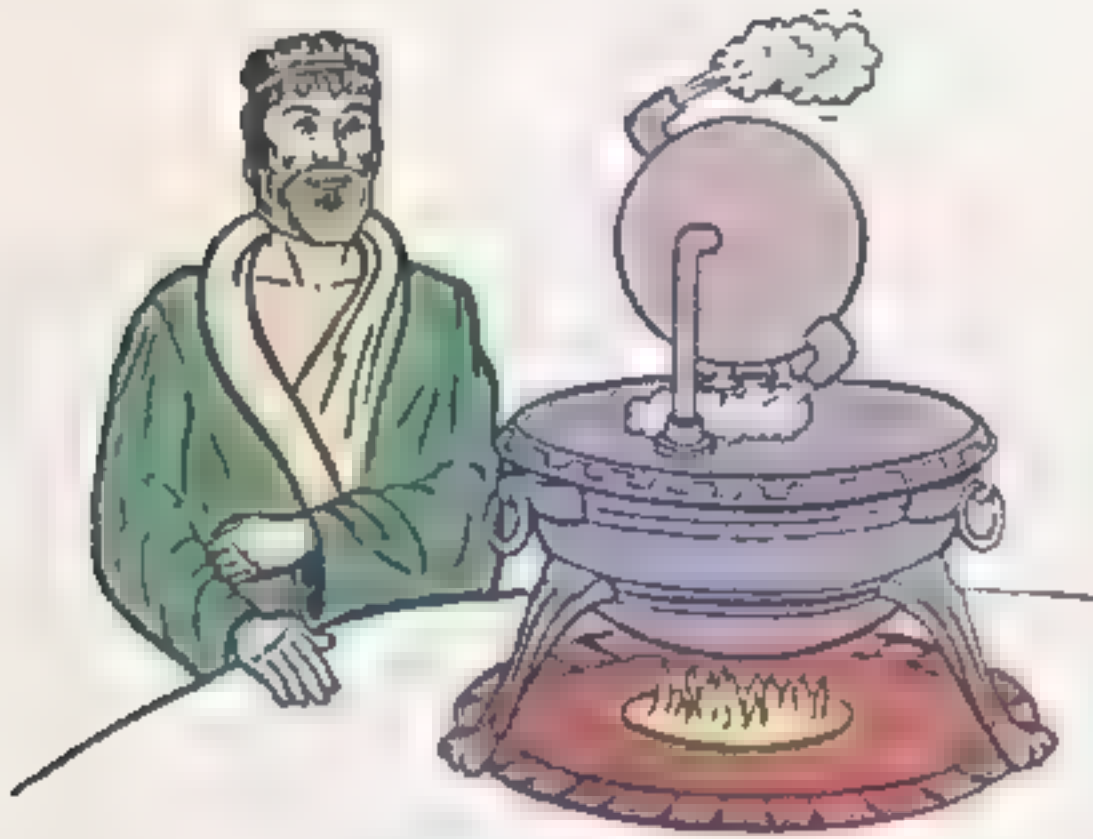






JET PROPULSION

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The idea of jet propulsion is based on the principle that every action has an equal and opposite reaction. This principle was stated by Isaac Newton in the 17th Century as his Third Law of Motion. History shows us that long before this principle had been stated by Newton, it had been put to use by a Greek mathematician named Hero of Alexandria. Hero's invention consisted of a hollow metal ball connected to a boiler and having short bent pipes as outlets for the steam. When the steam escaped through the bent nozzles, it caused the ball to rotate. (See illustration above.)

To help understand modern day jet propulsion, let's see how easy it is to make a common garden hose act like a jet engine. Without a nozzle on the hose, the water simply pours through it. With a nozzle, the same stream of water makes the hose a writhing serpent, lashing about on the ground. This is because the water is forced to compress and go faster to escape through the narrow opening of the nozzle at the same rate that it is entering the hose. This added speed and thrust greatly increases the power of the water. A jet engine does the same thing with a stream of air . . . only more so. Jet engines contain (1) compressors . . . to pack the air in . . . (2) combustion chambers where the air is mixed with fuel and fired out of a (3) discharge nozzle, which provides for the escape of expanding exhaust gases. (See illustration.)

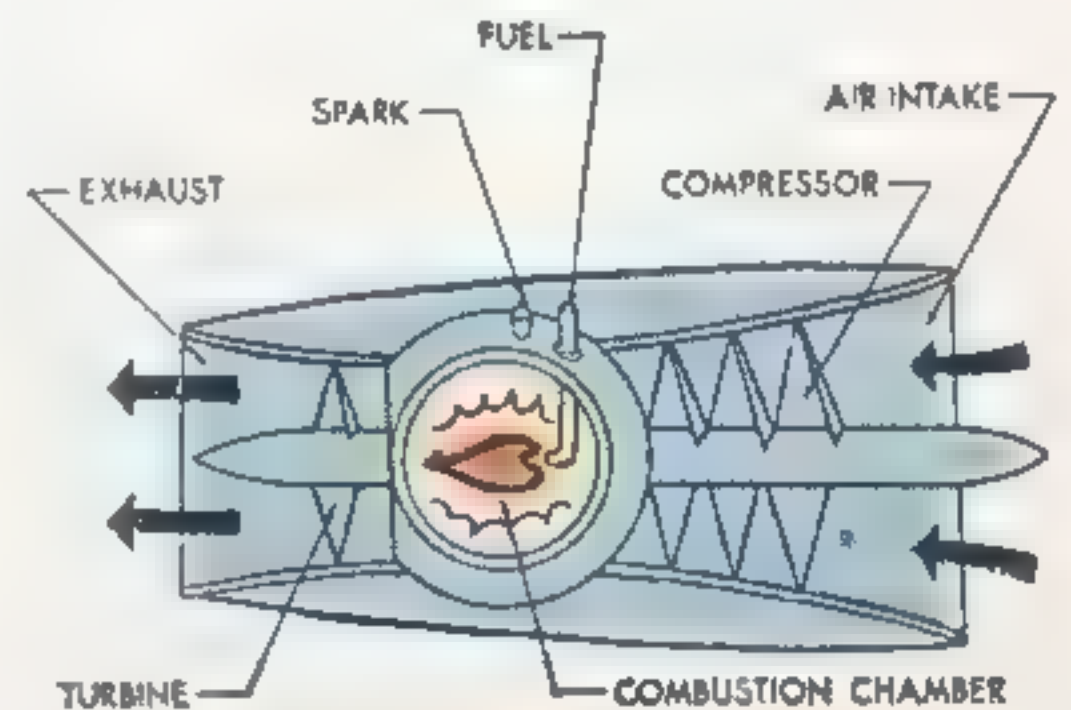
The most commonly used jet engine is the turbojet. Not only does it use the compressor,

combustion chamber, and discharge nozzle, but it also has what is called an "afterburner." This "pipe" extends from the rear of the engine. It is actually another combustion chamber where more fuel is added to the burning gases so that they explode with even greater force. The afterburner is used mainly on transport planes to give more takeoff power and on military planes for bursts of power during combat maneuvers.

The simplest yet fastest engine is the ramjet, sometimes called the "flying stove pipe." It has few moving parts and must be helped by another engine to reach a high speed before it will operate. The high speed of the "flying stove pipe" rams air into the open end of the engine; therefore, no compressor is needed. Then, just as with the turbojet, fuel is added to the air, the mixture is set on fire, and the gases burst out through the rear of the engine. The ramjet is second only to the rocket in jet engine speed!

A turboprop engine works the same way as the turbojet. It stands halfway between the propeller-driven plane and the pure jet, combining jet propulsion and propeller action. It cannot go as fast or as high as the turbojet, but it can take off on a shorter runway and carry a load on less fuel.

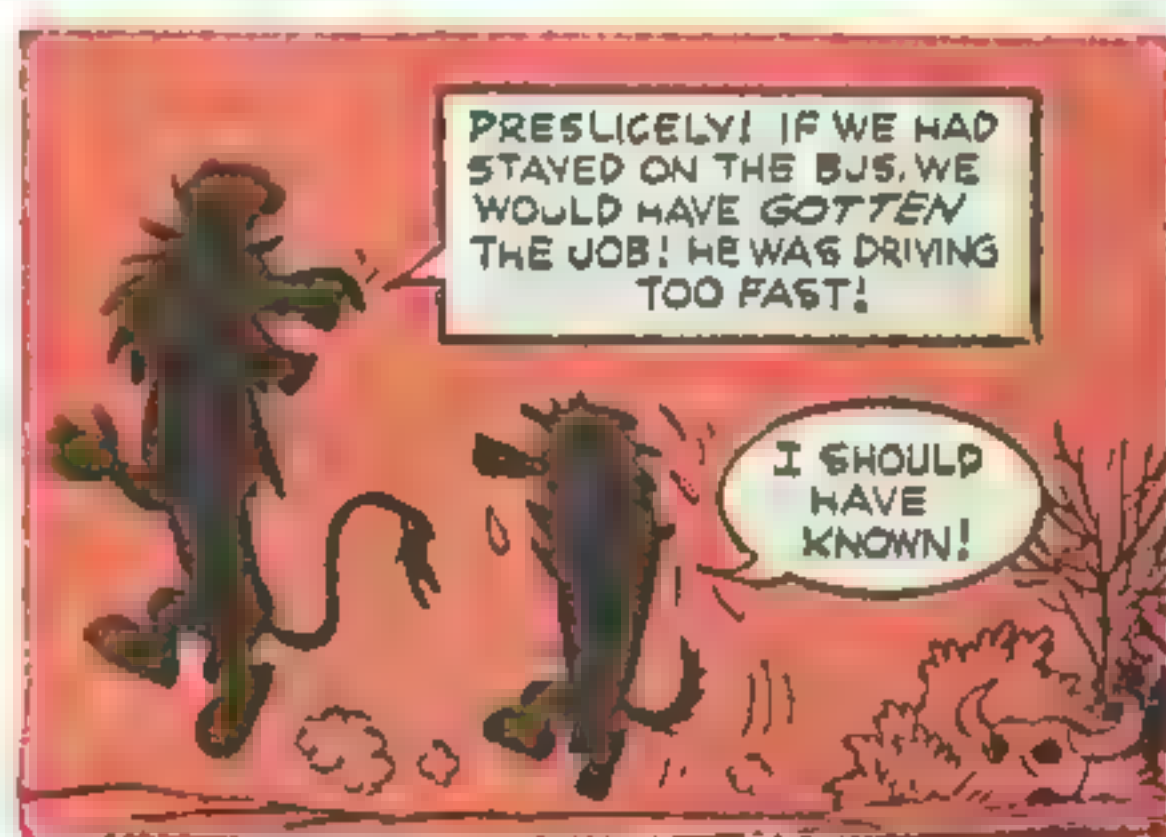
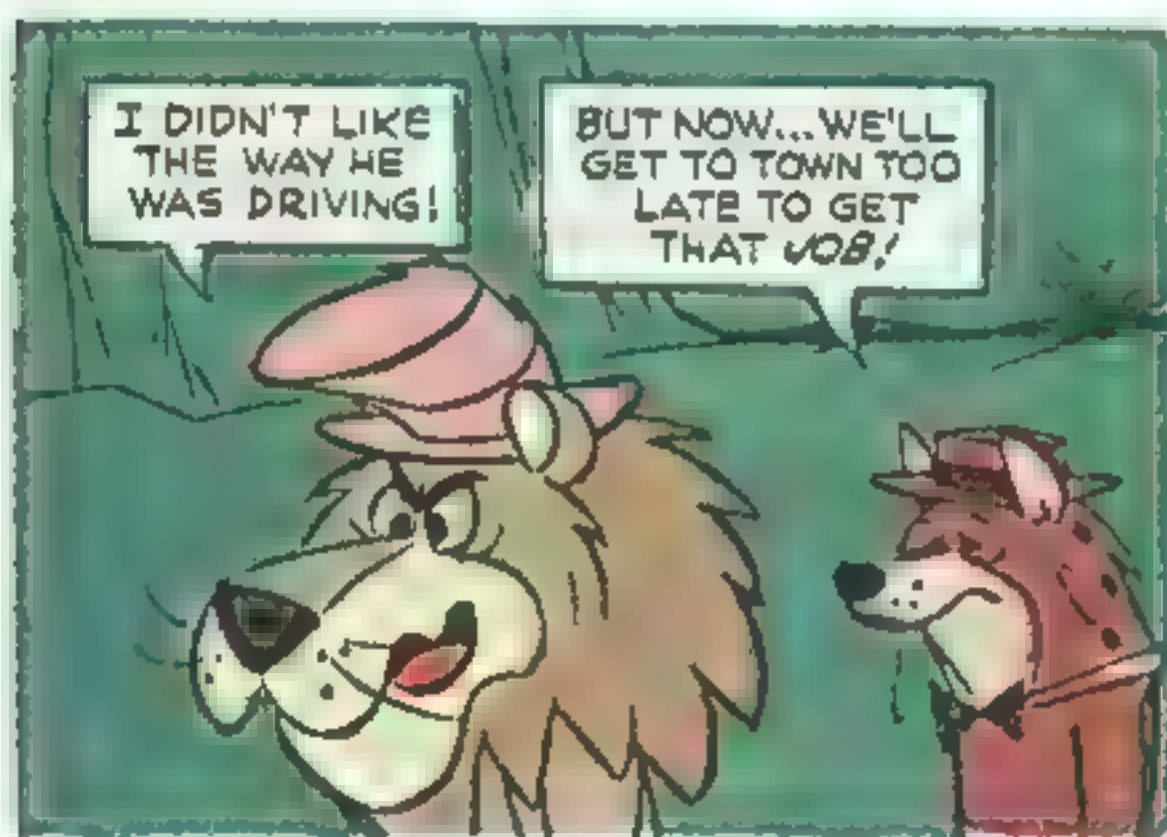
Jet propulsion has come a long way from Hero of Alexandria to the roaring jets of today. As we reach for the moon, engineers are striving for advanced systems of propulsion that will someday carry man to the more distant planets and stars.

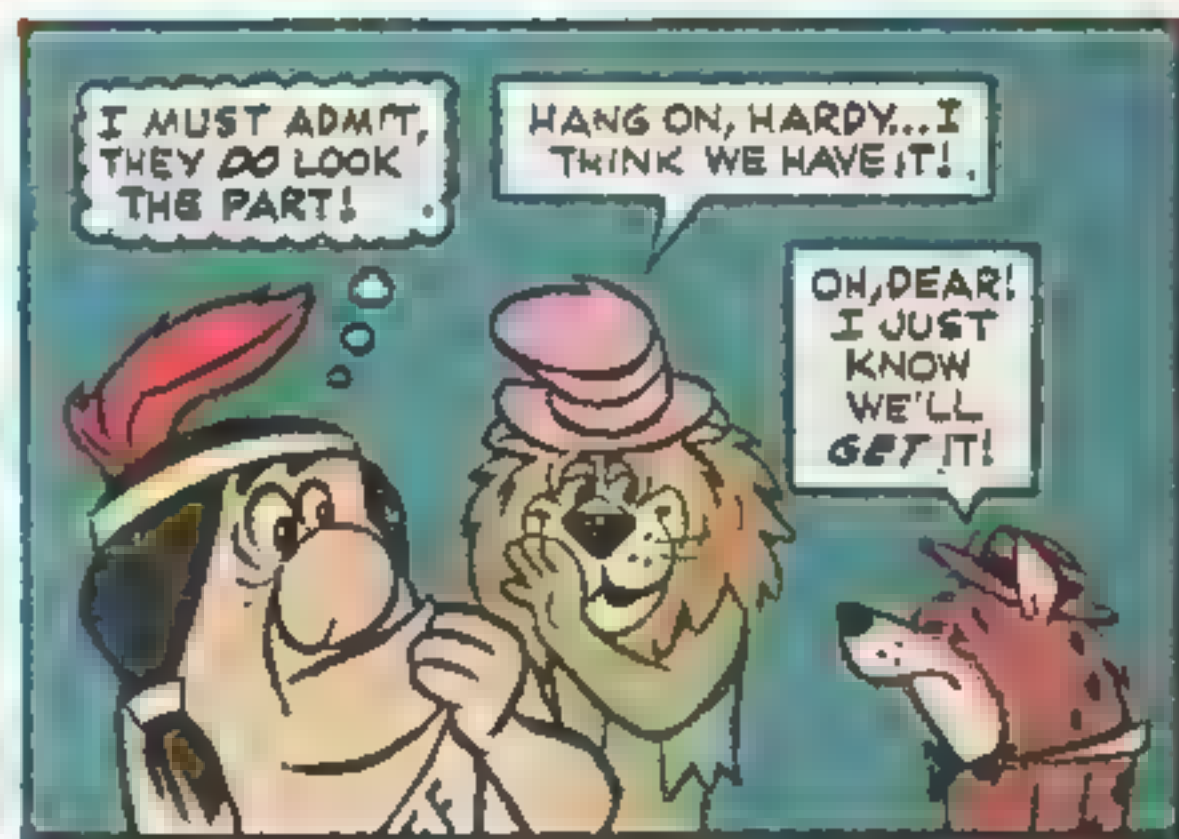
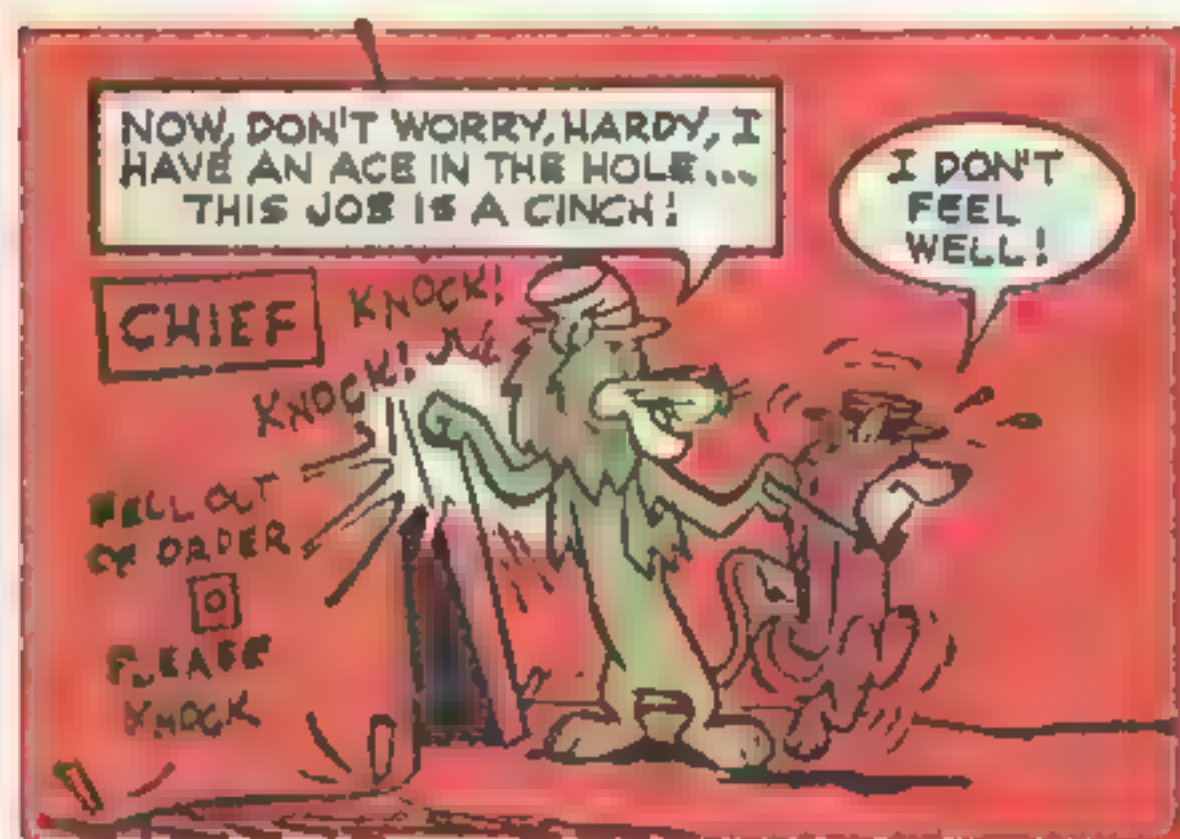
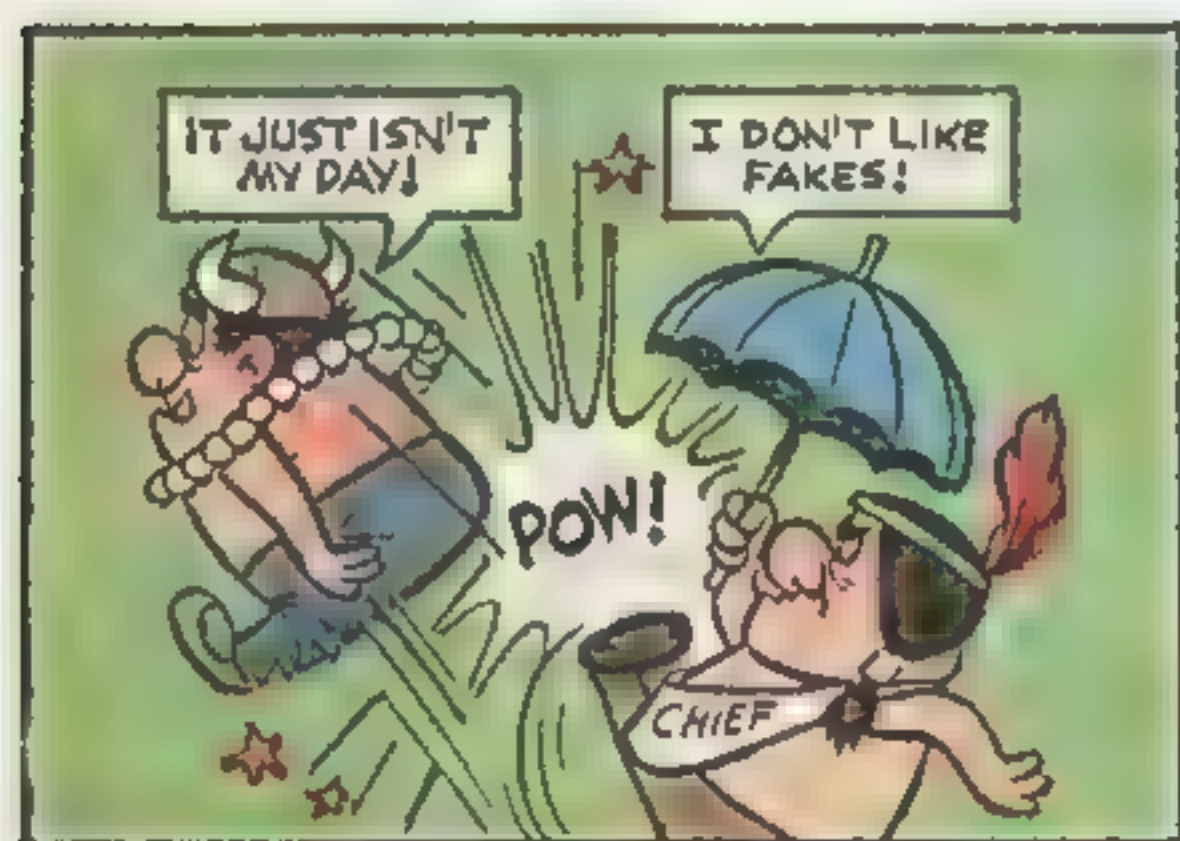
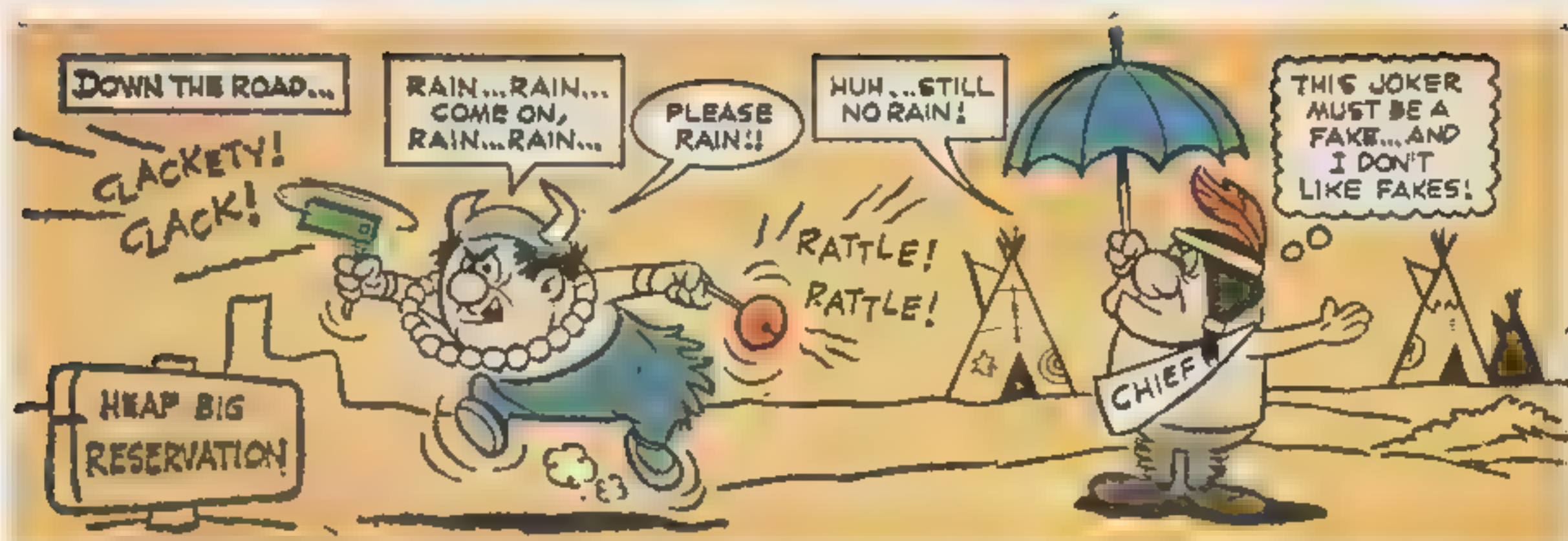


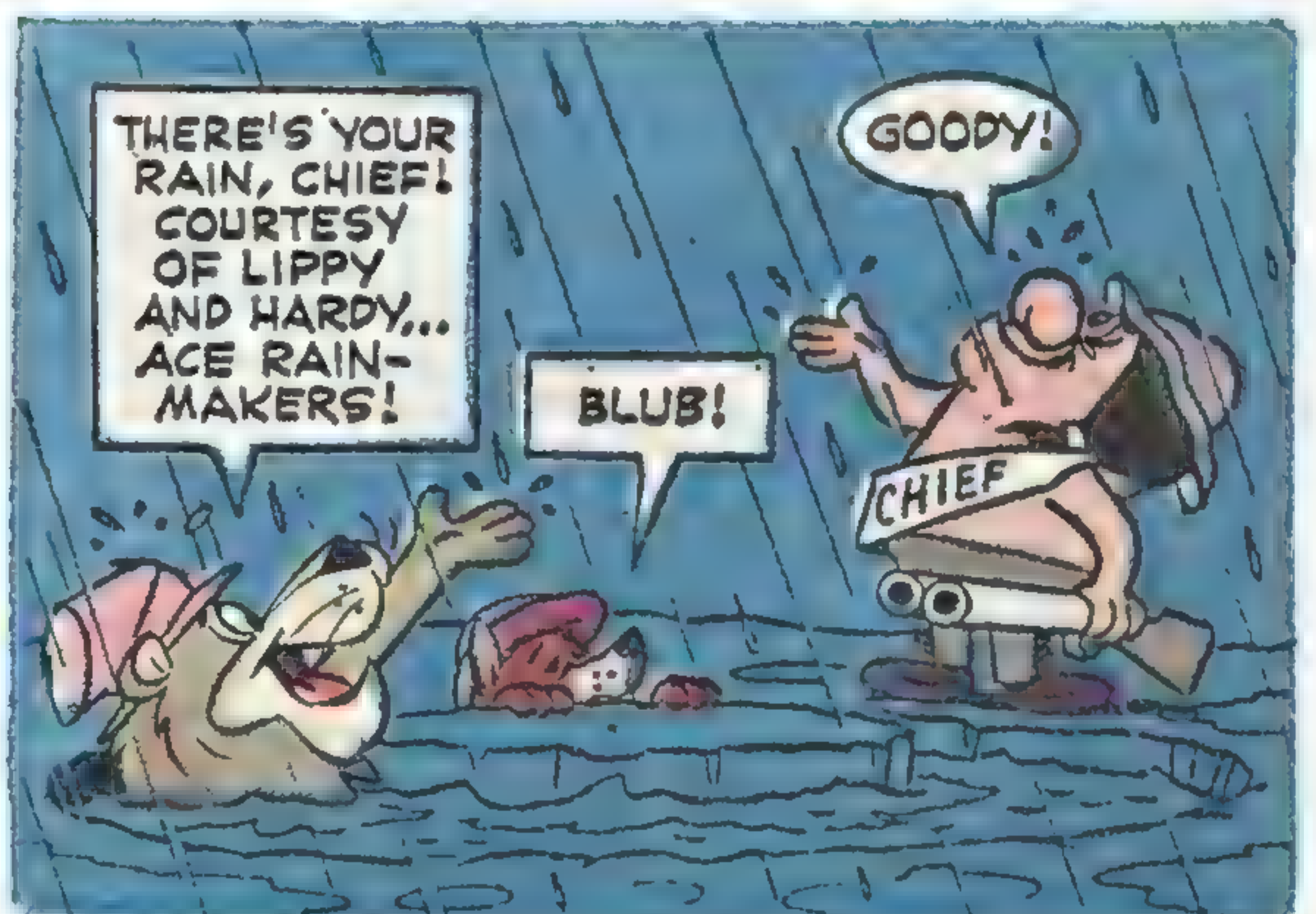
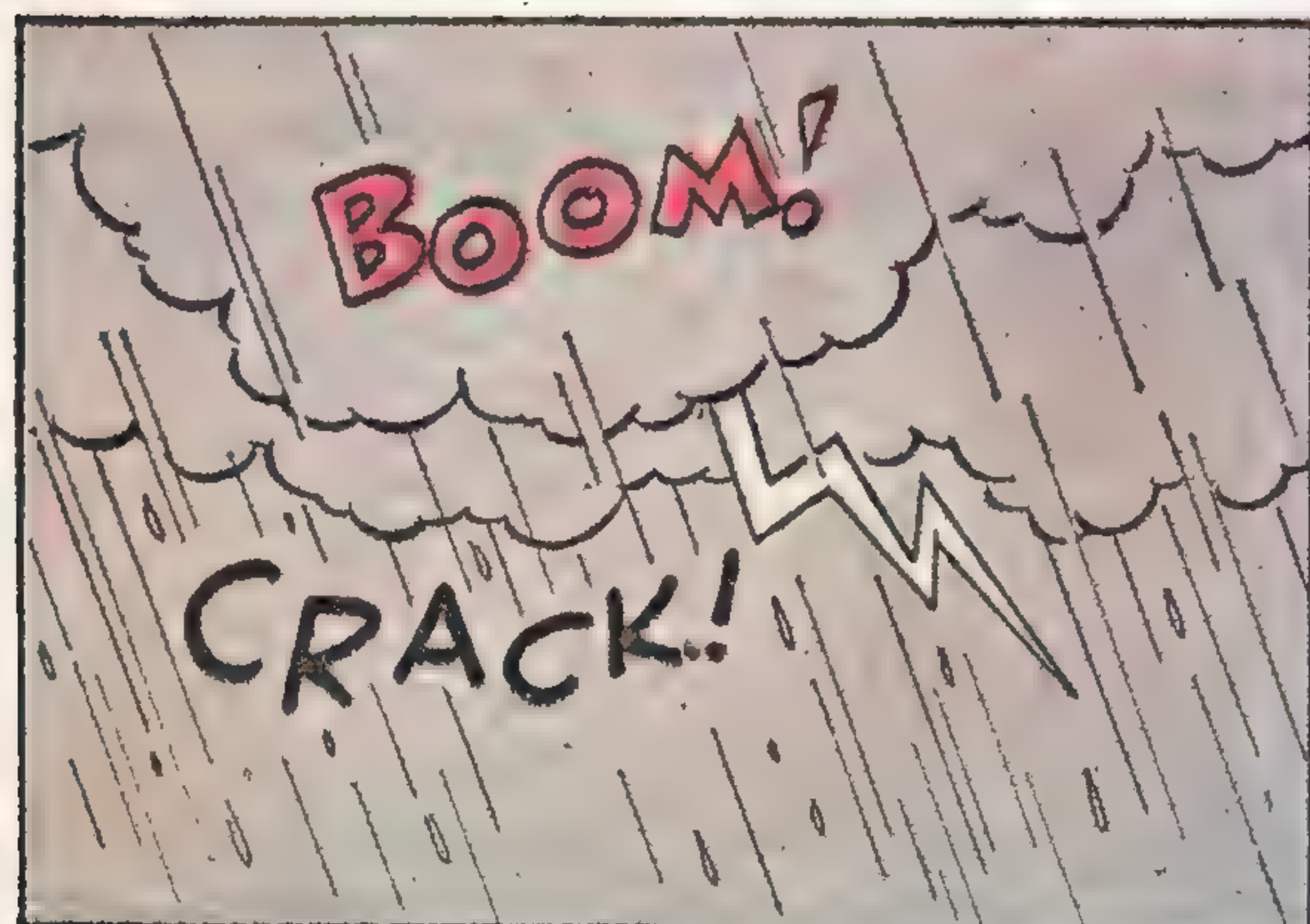
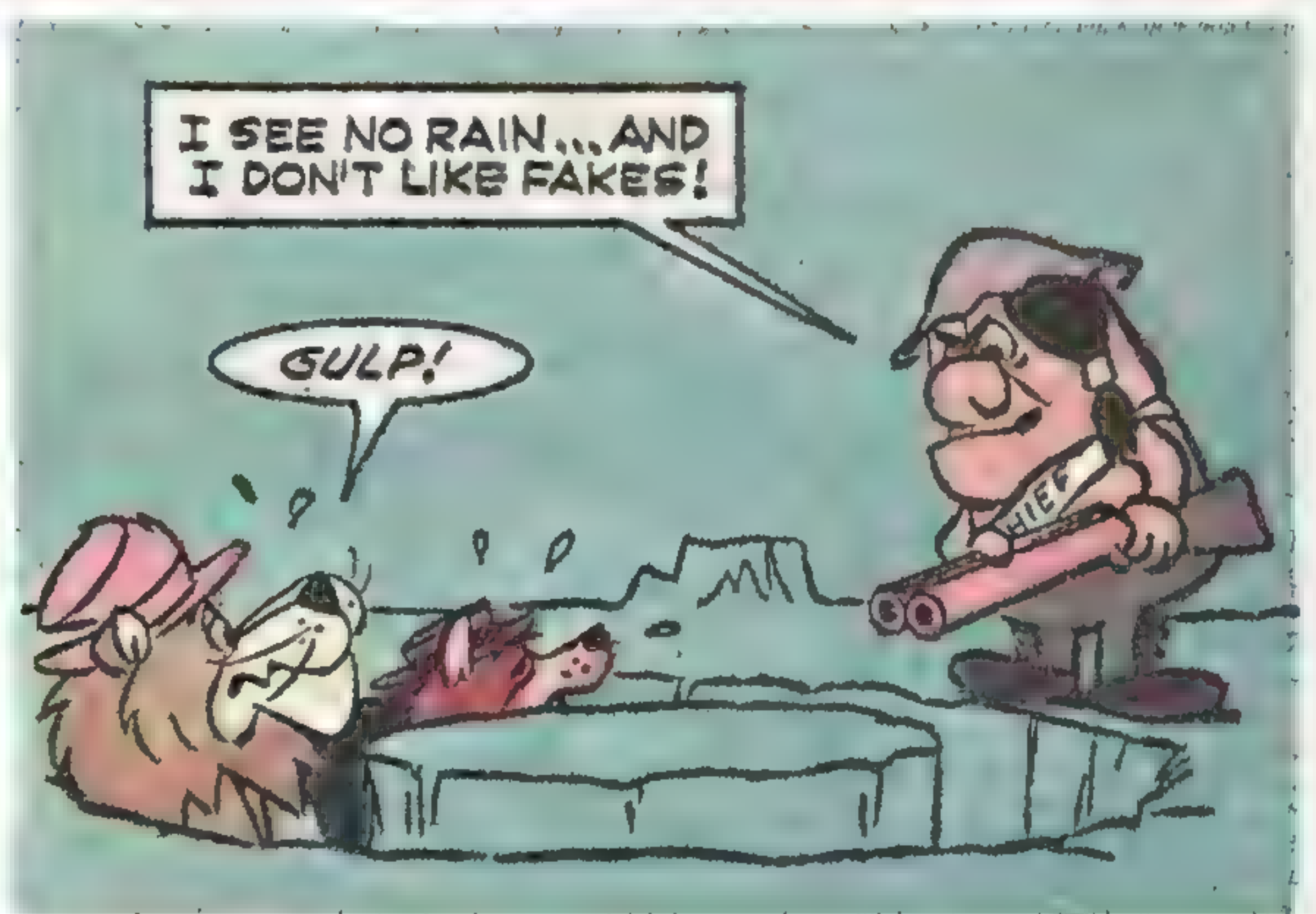
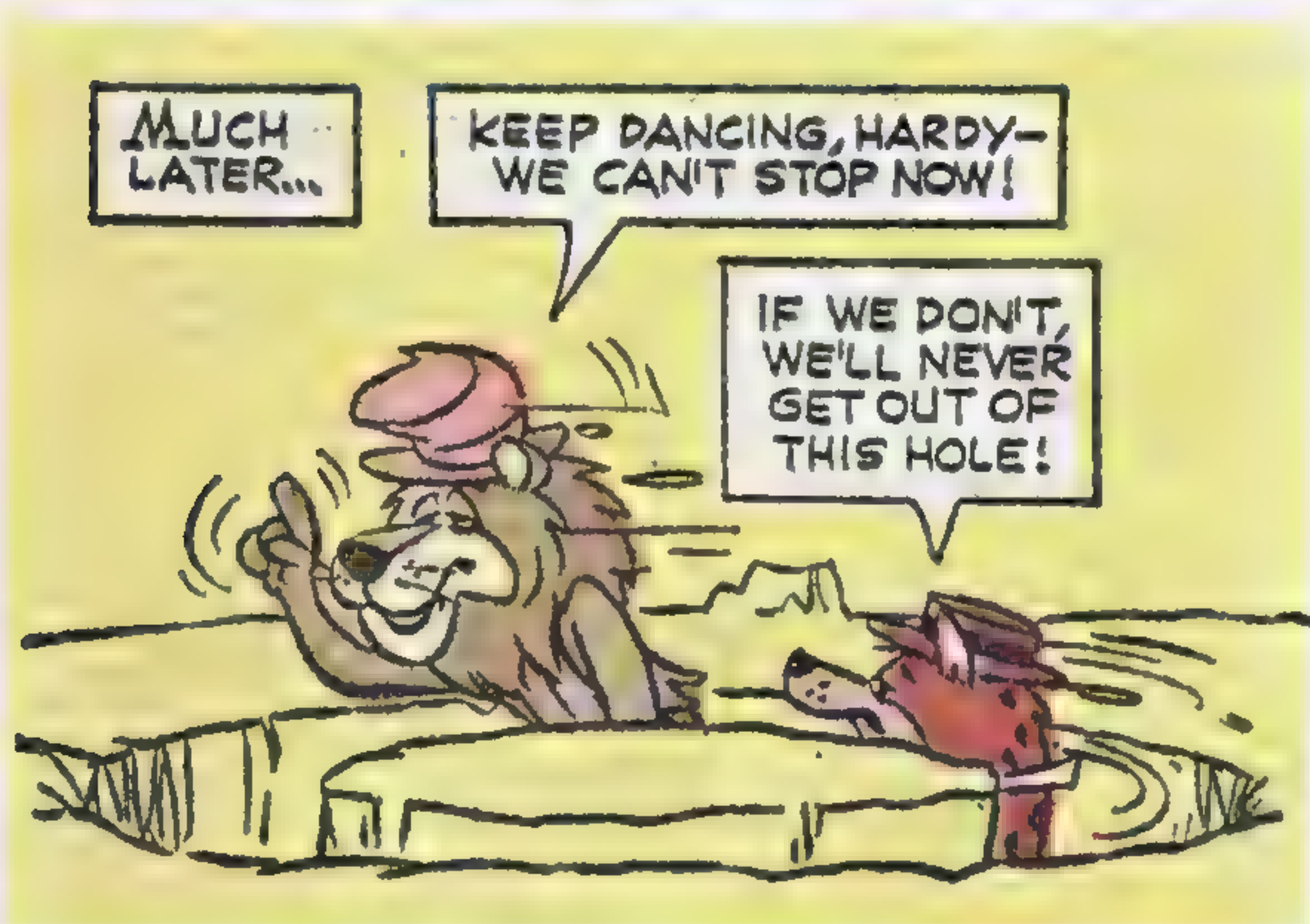
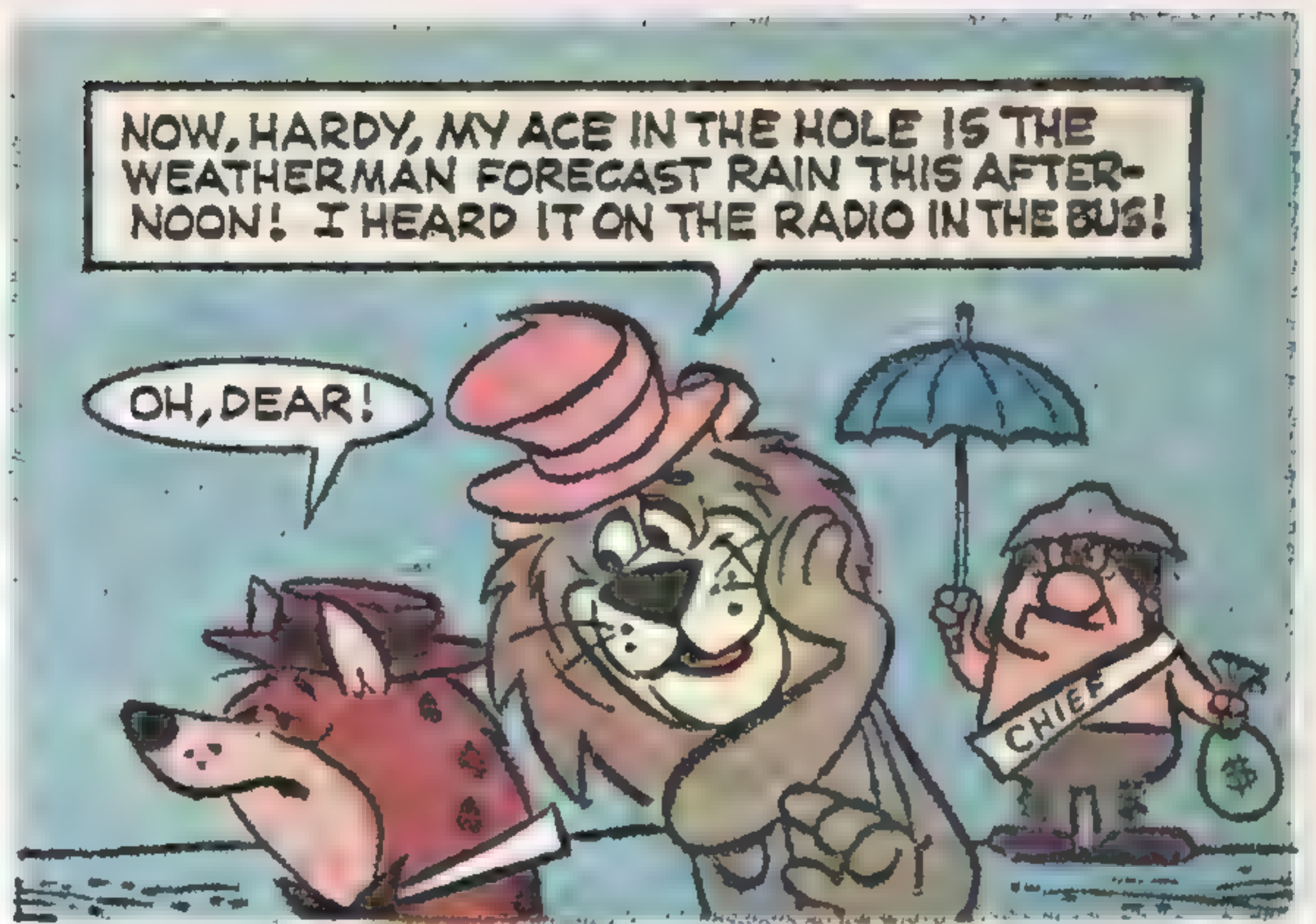
JET ENGINE

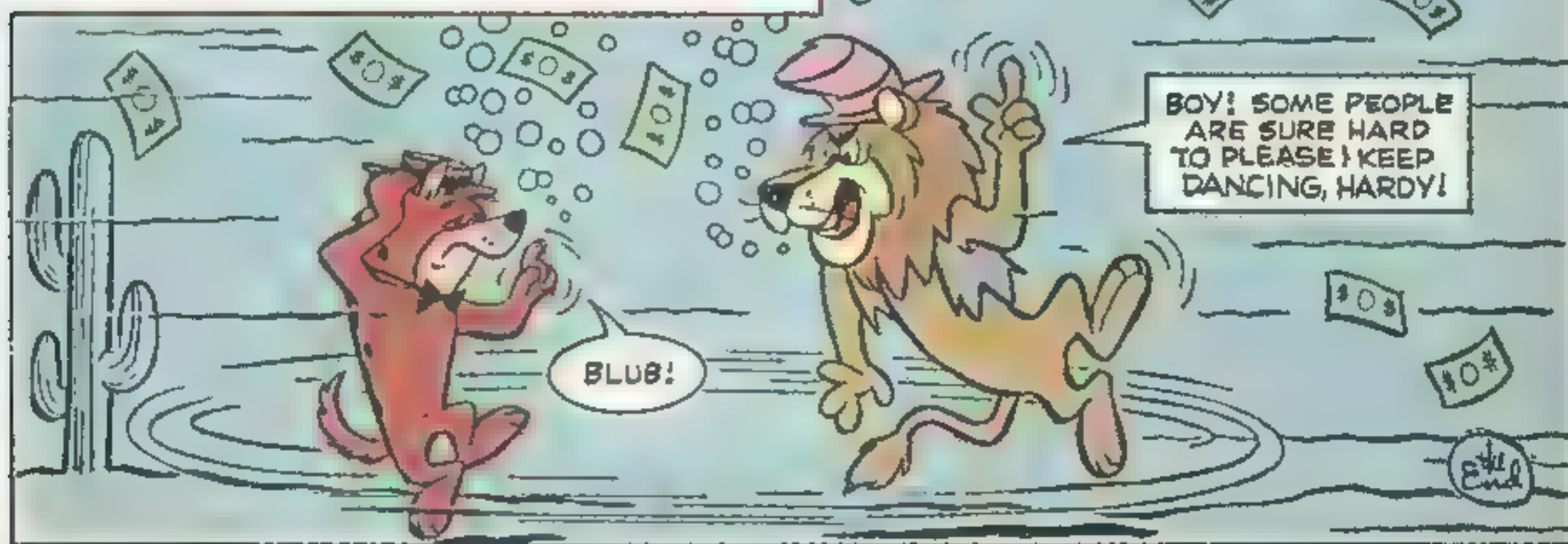
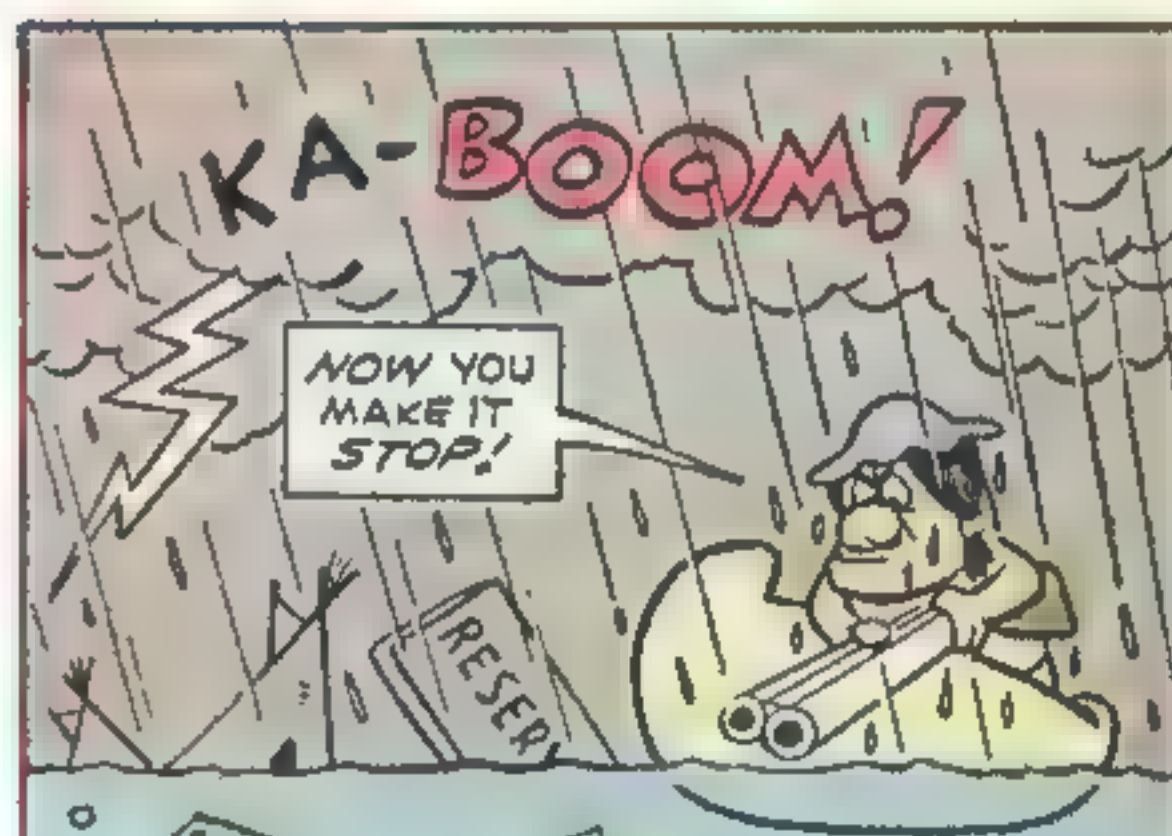
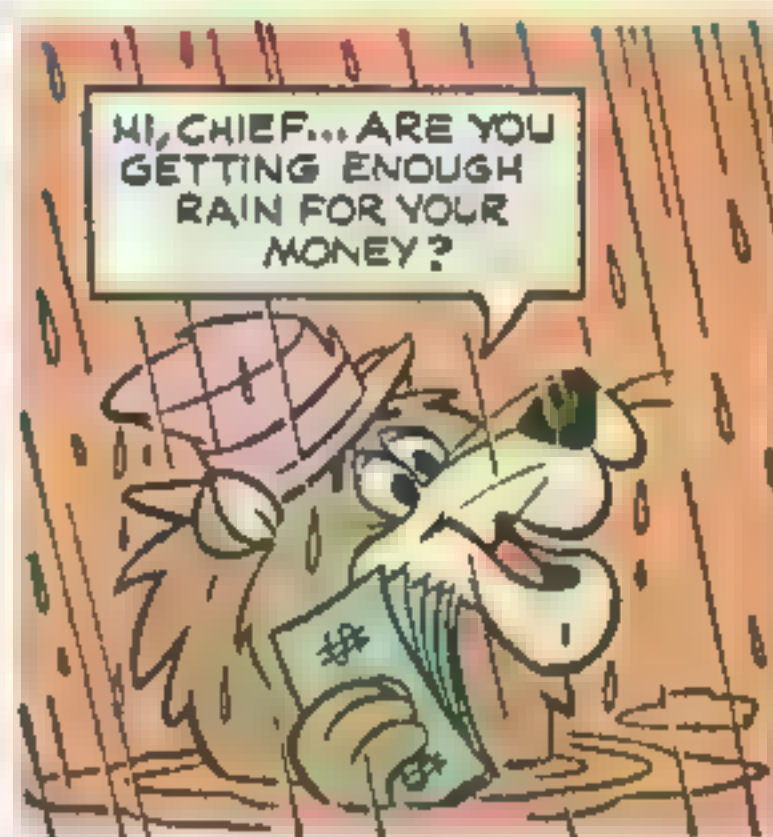
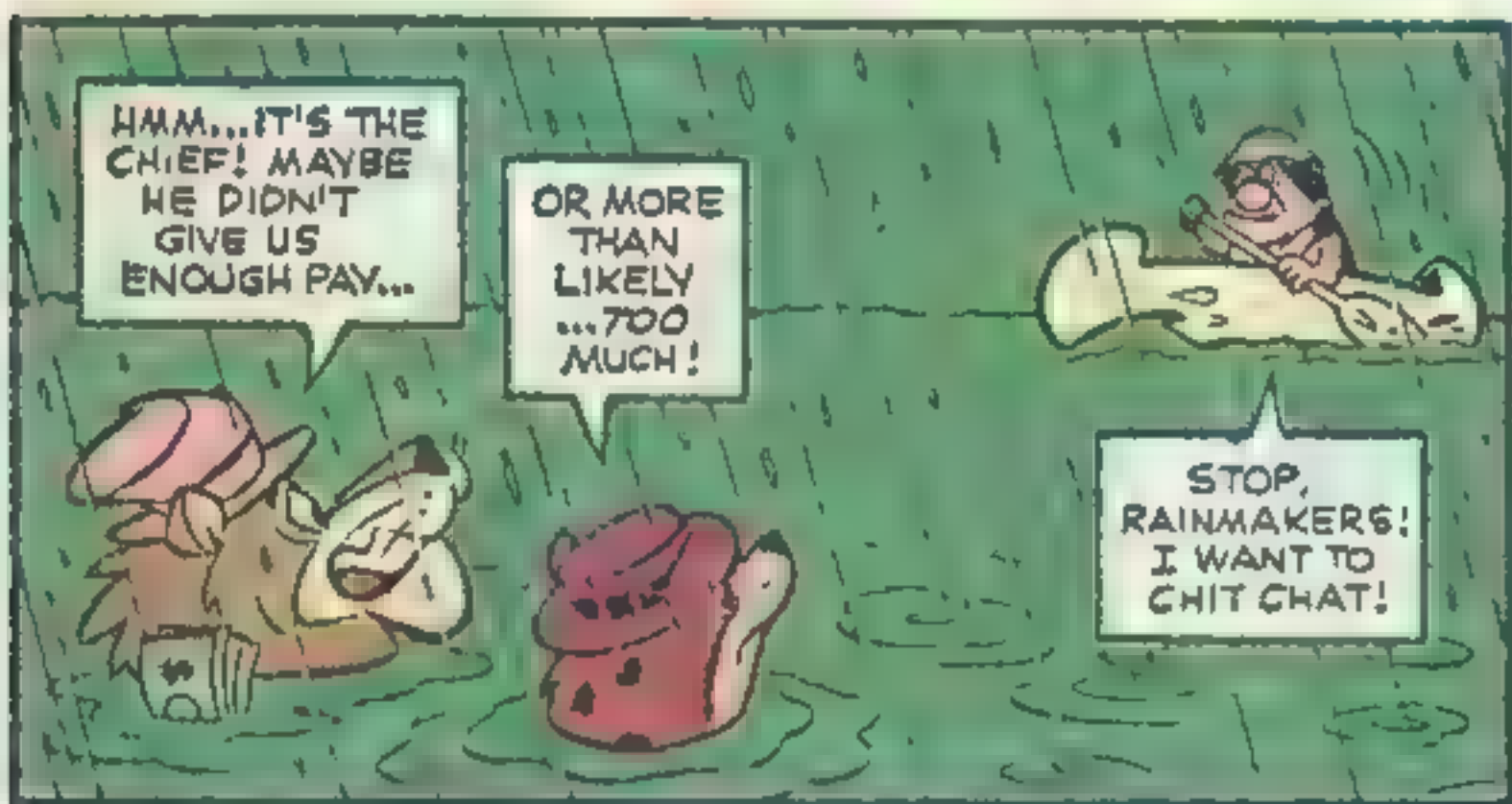
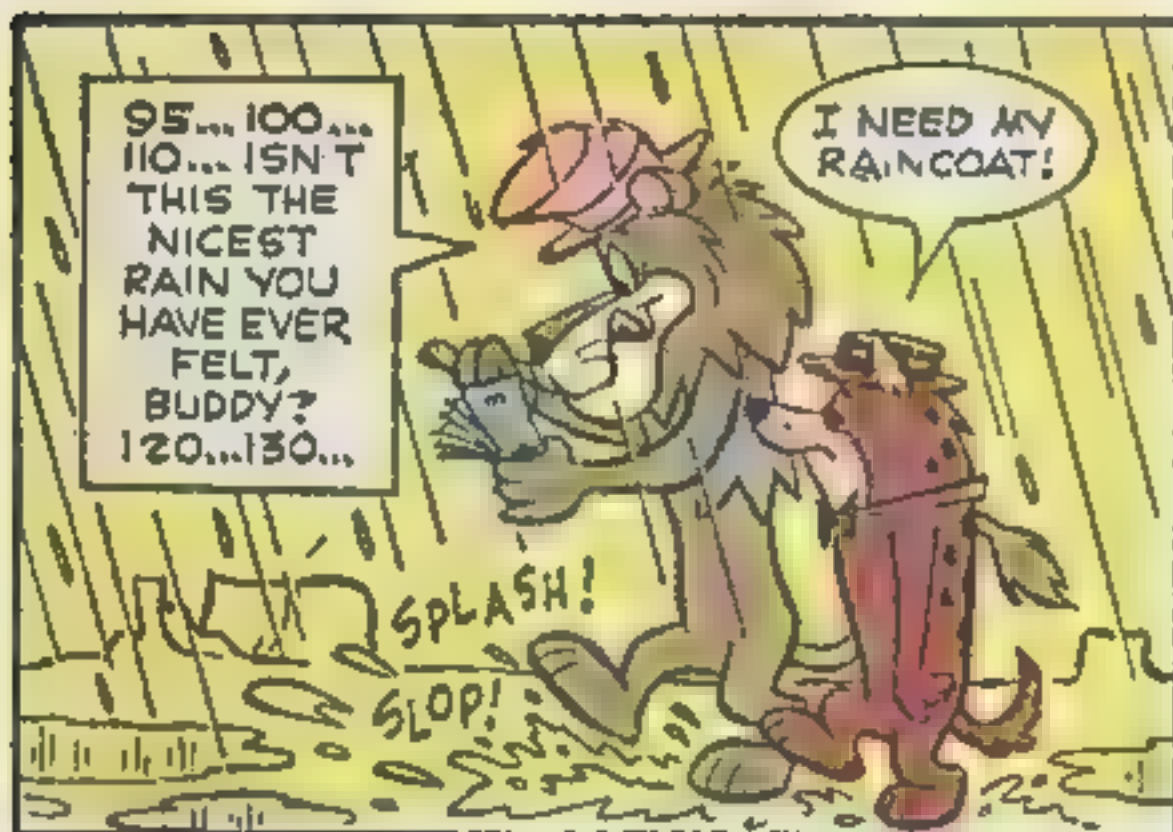
Hanna-Barbara
Lippy Lion
and Hardy
Har Har

THE RAINMAKERS

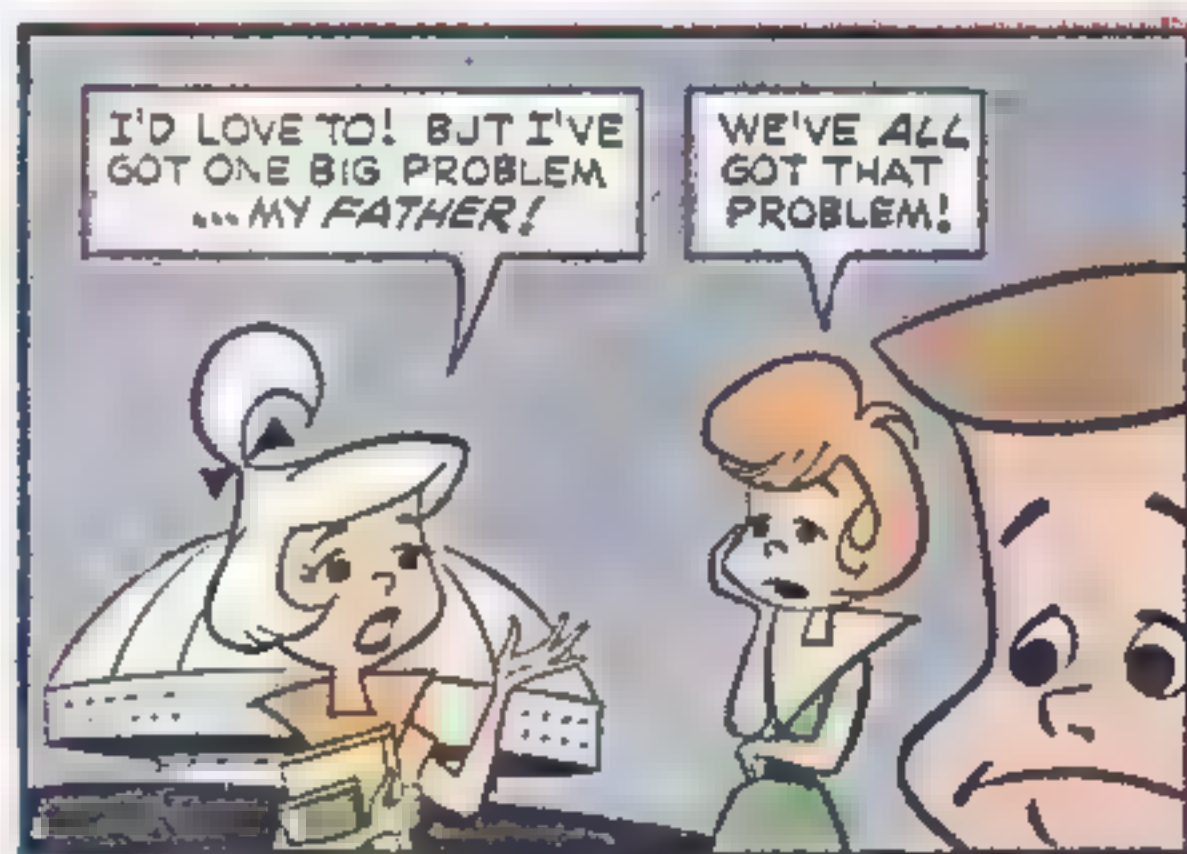
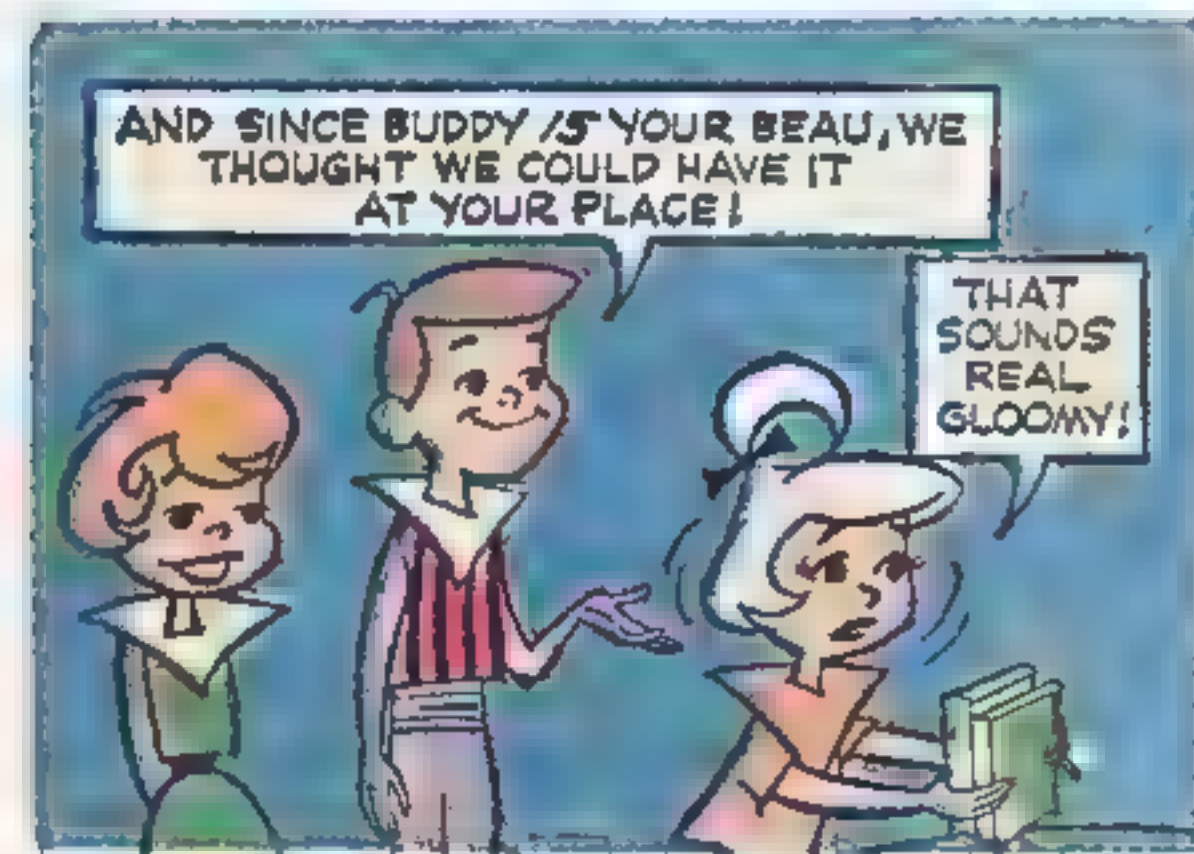
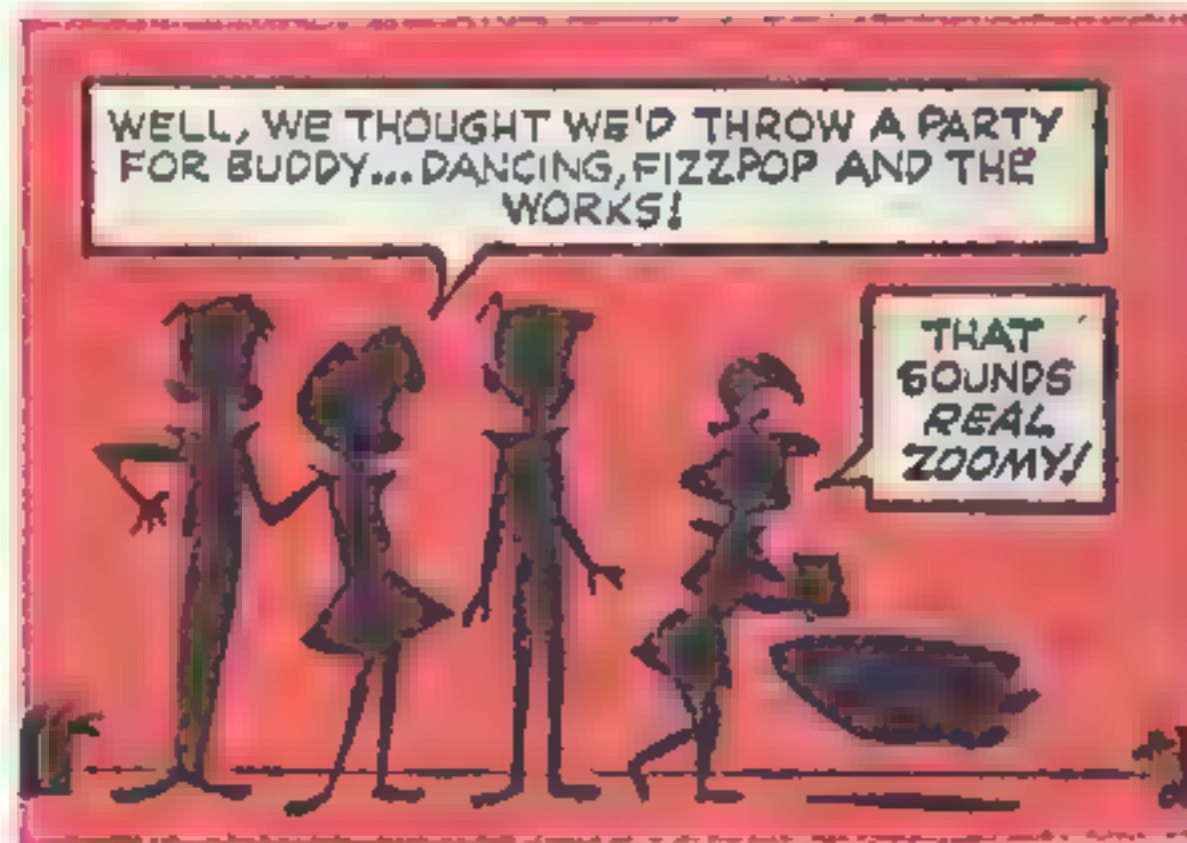
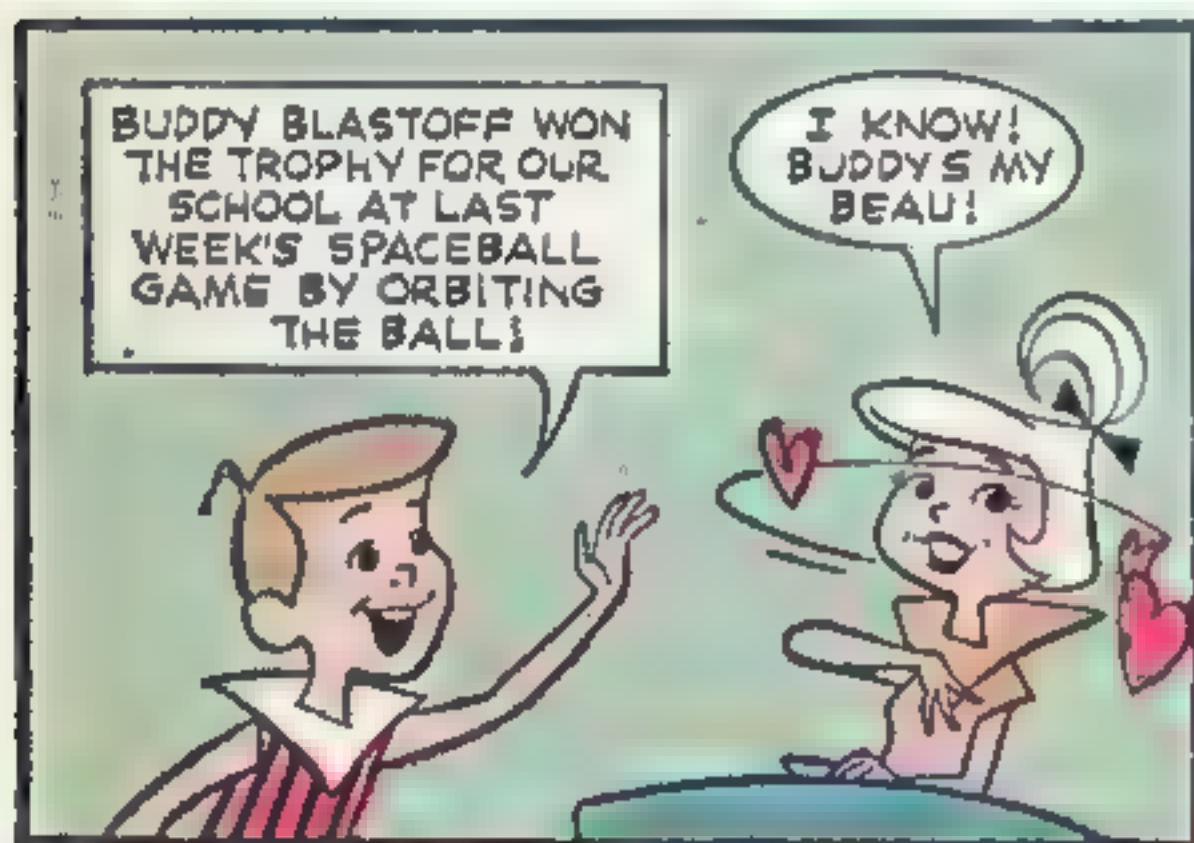
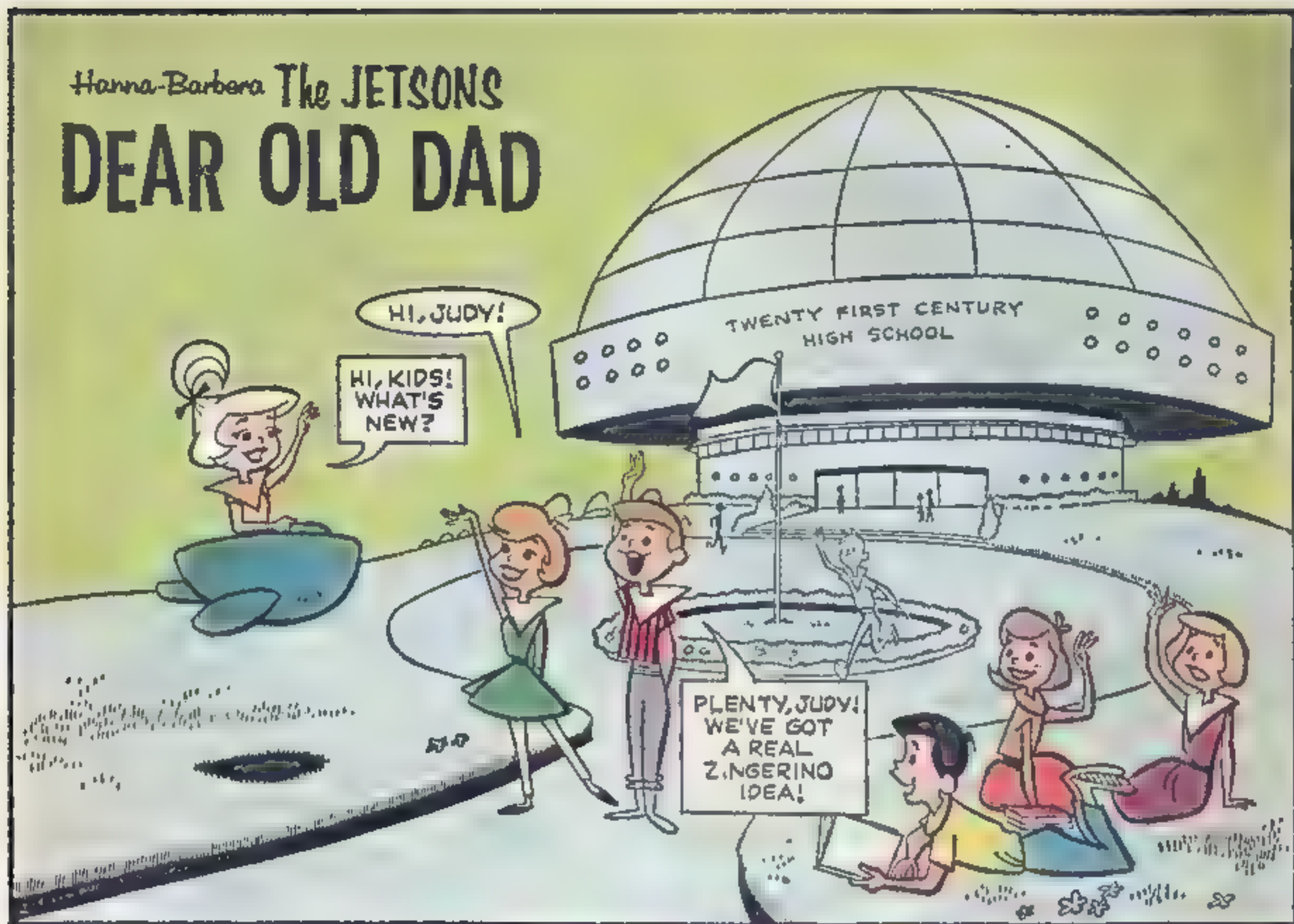


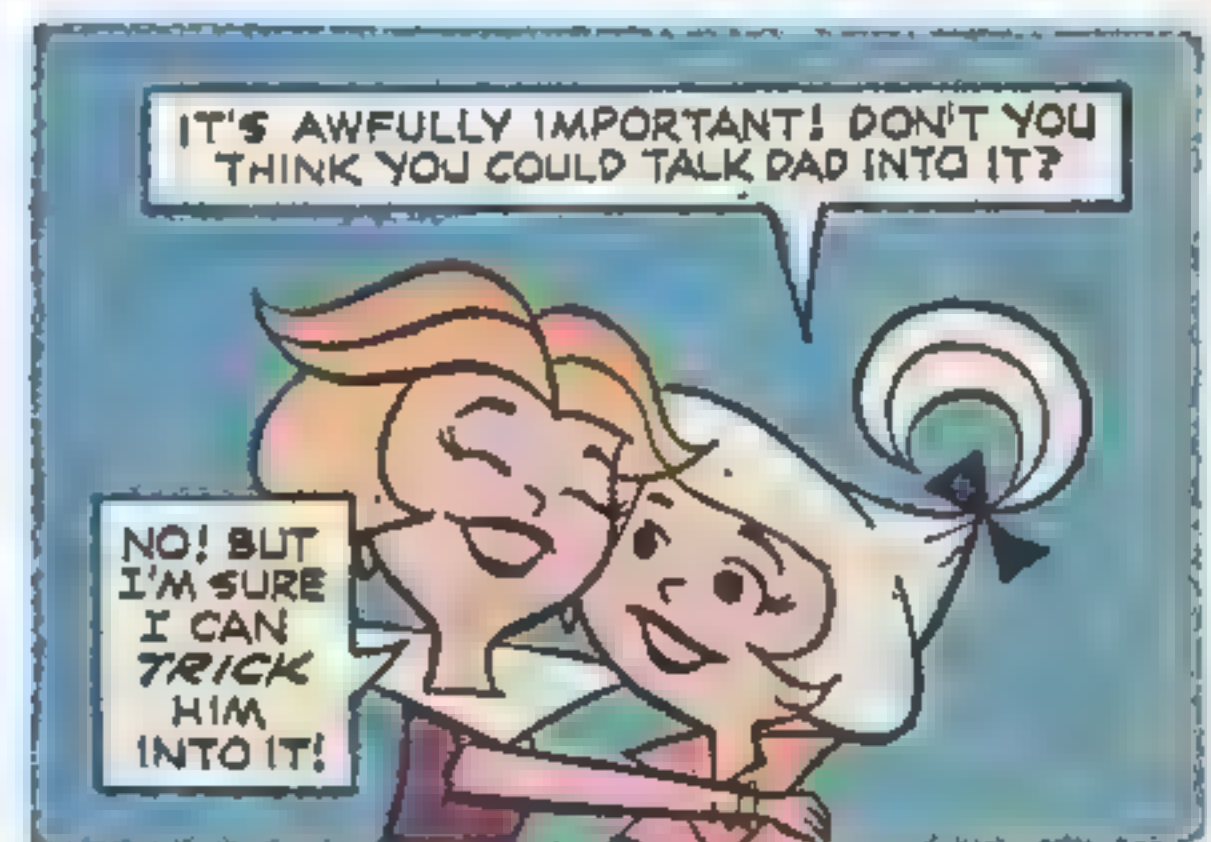
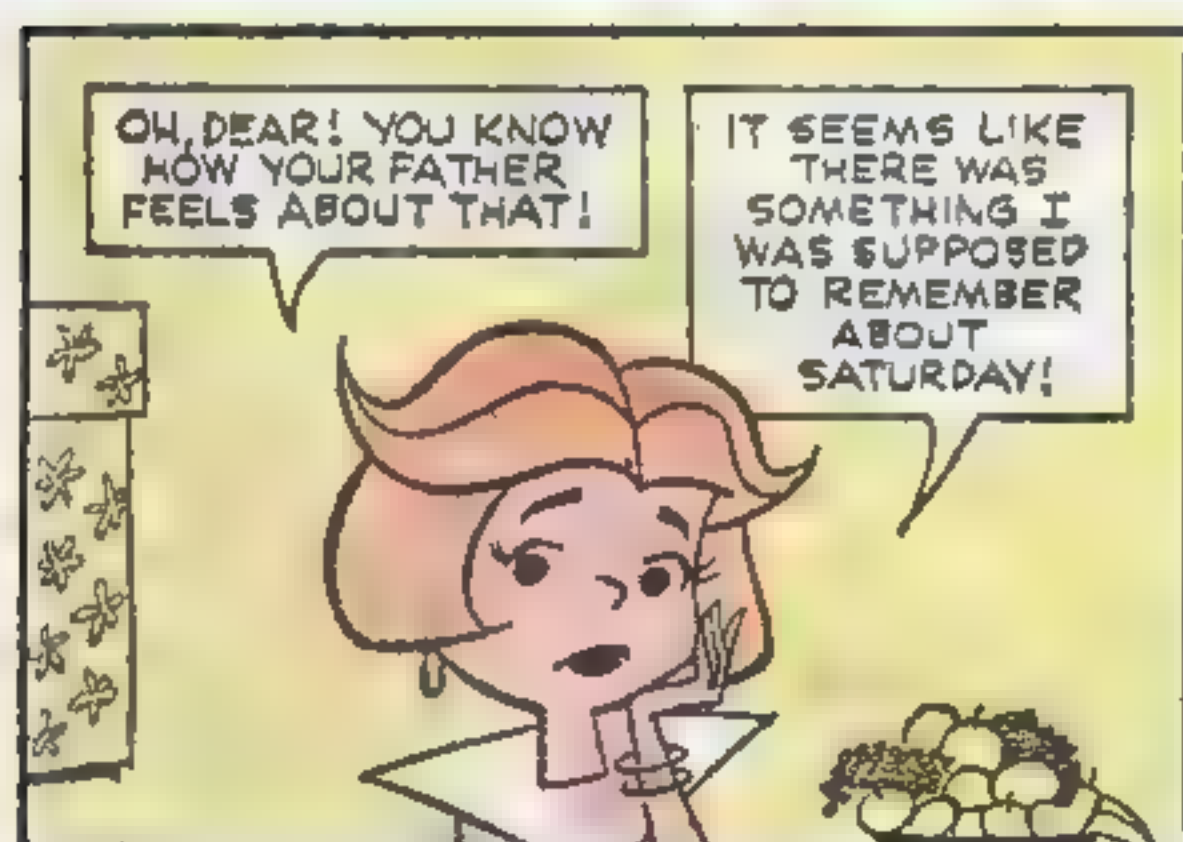
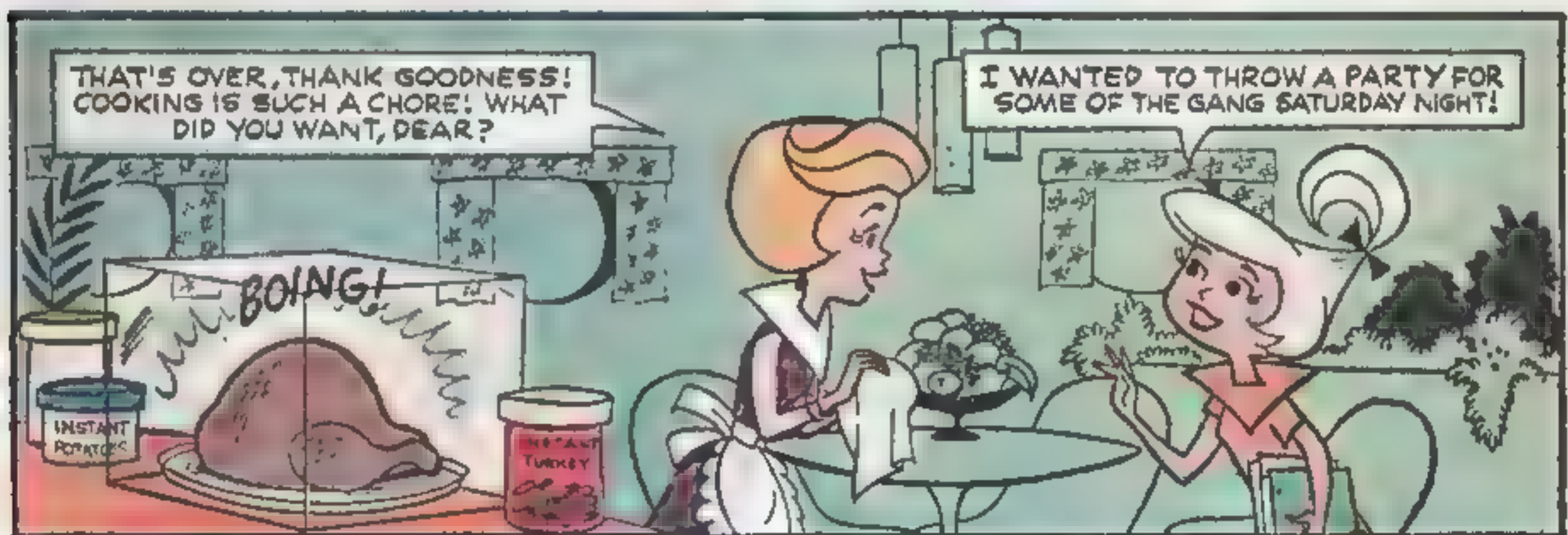
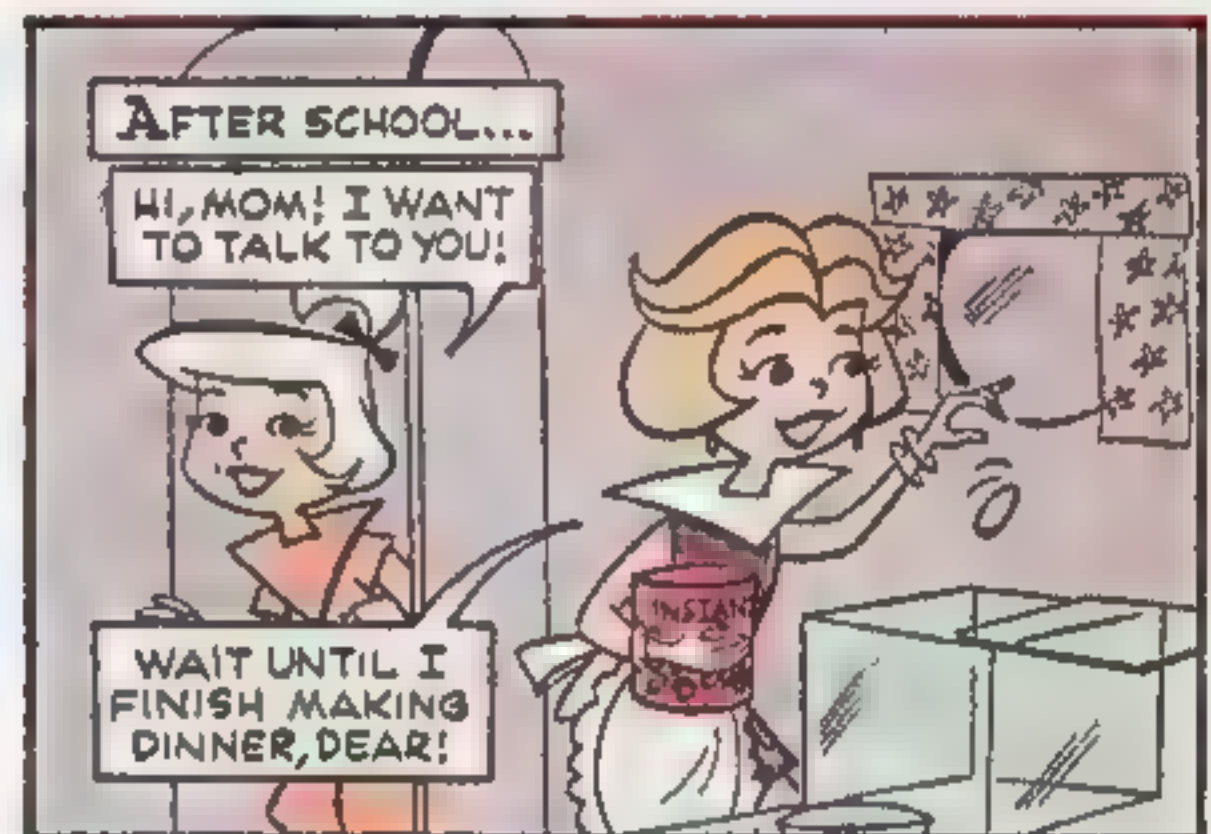
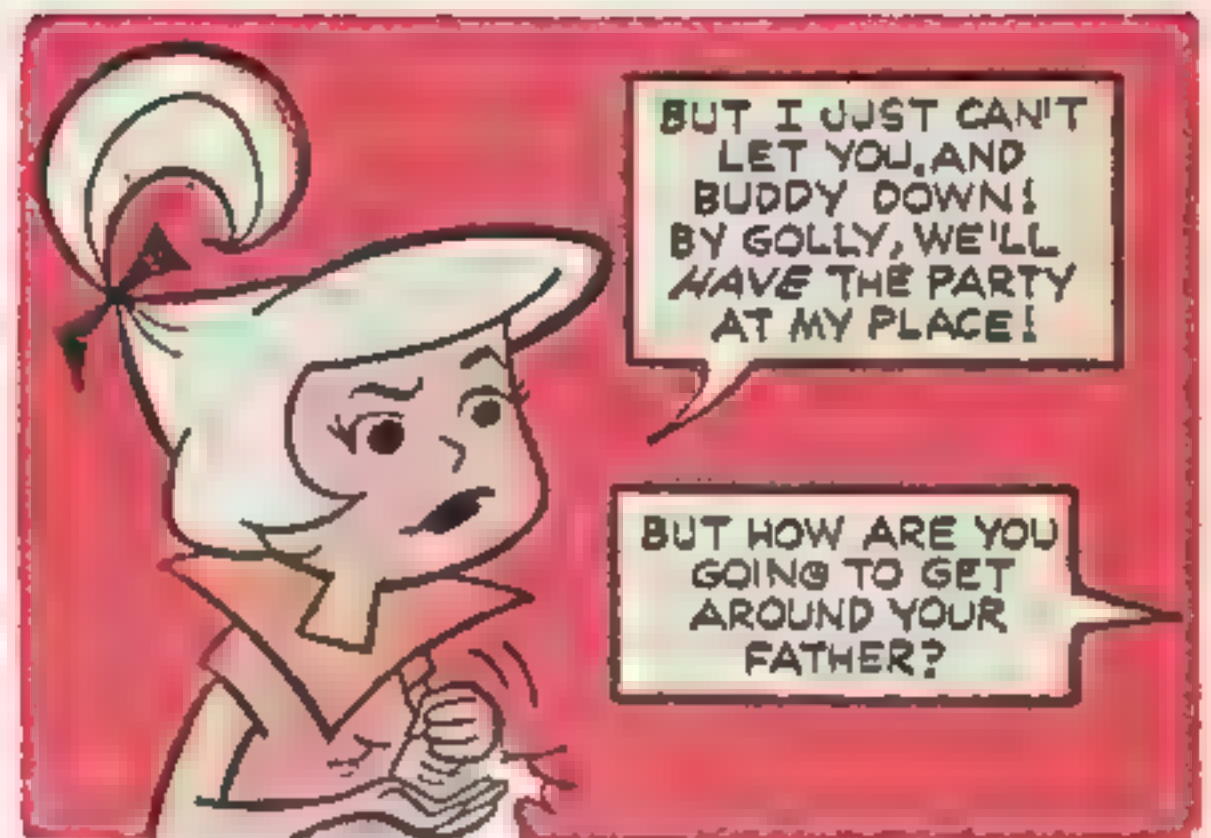
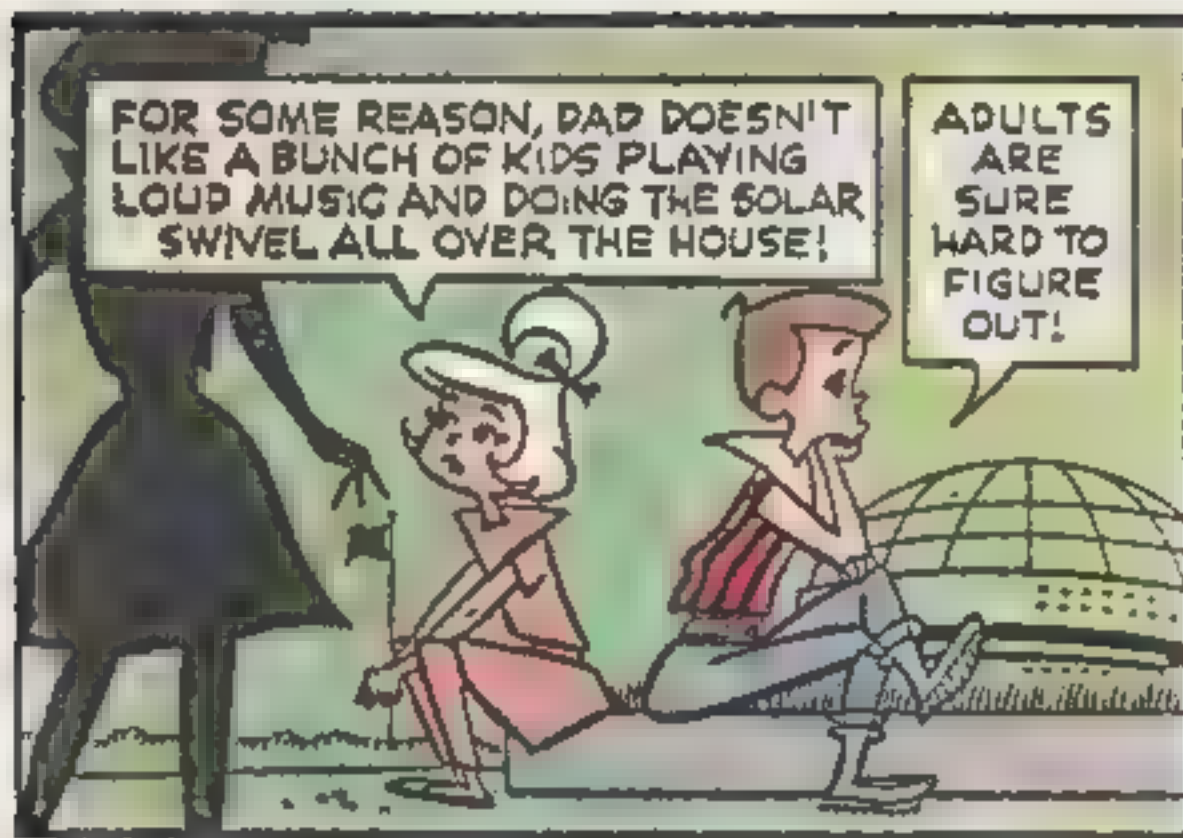


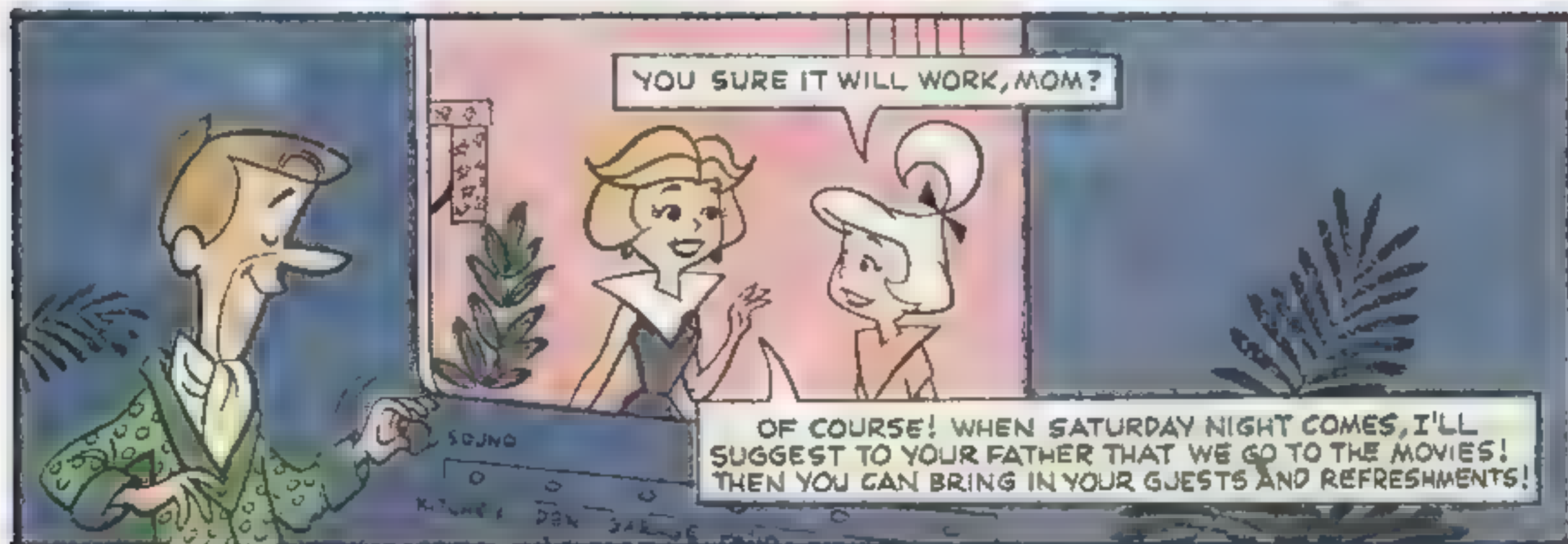
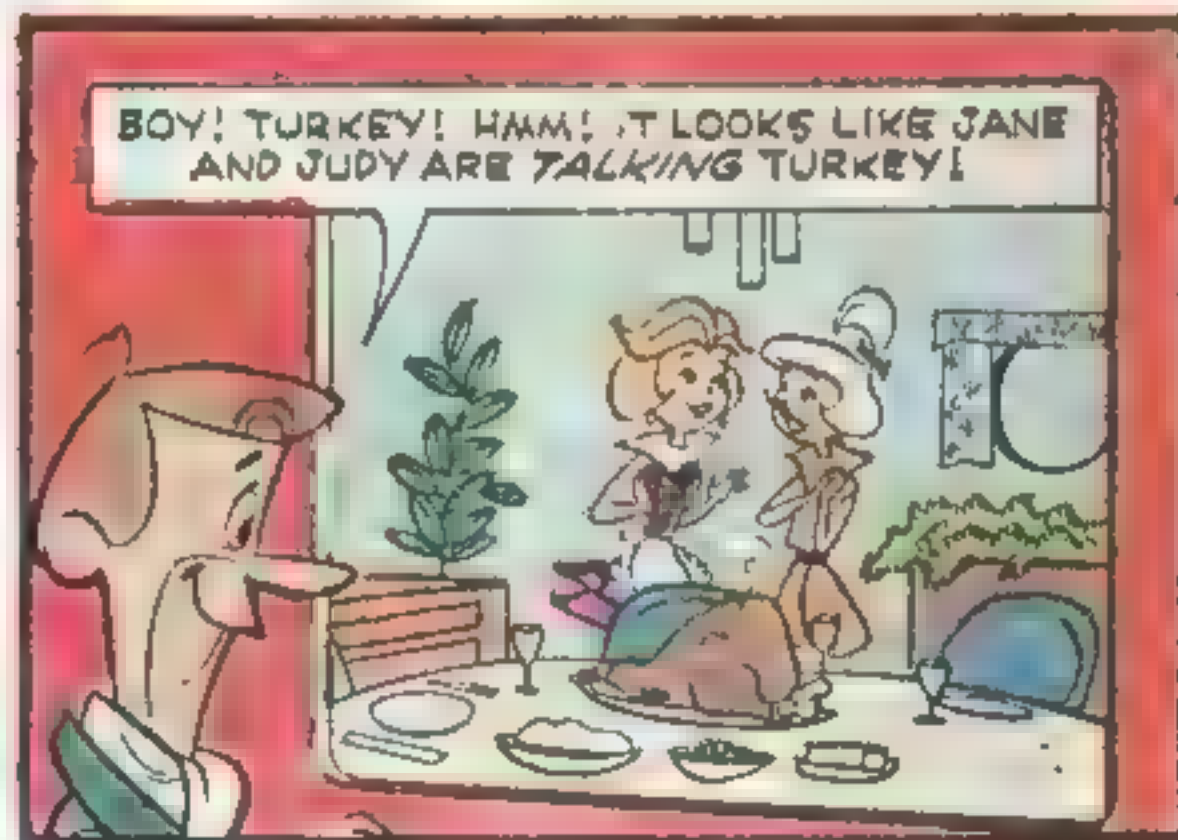
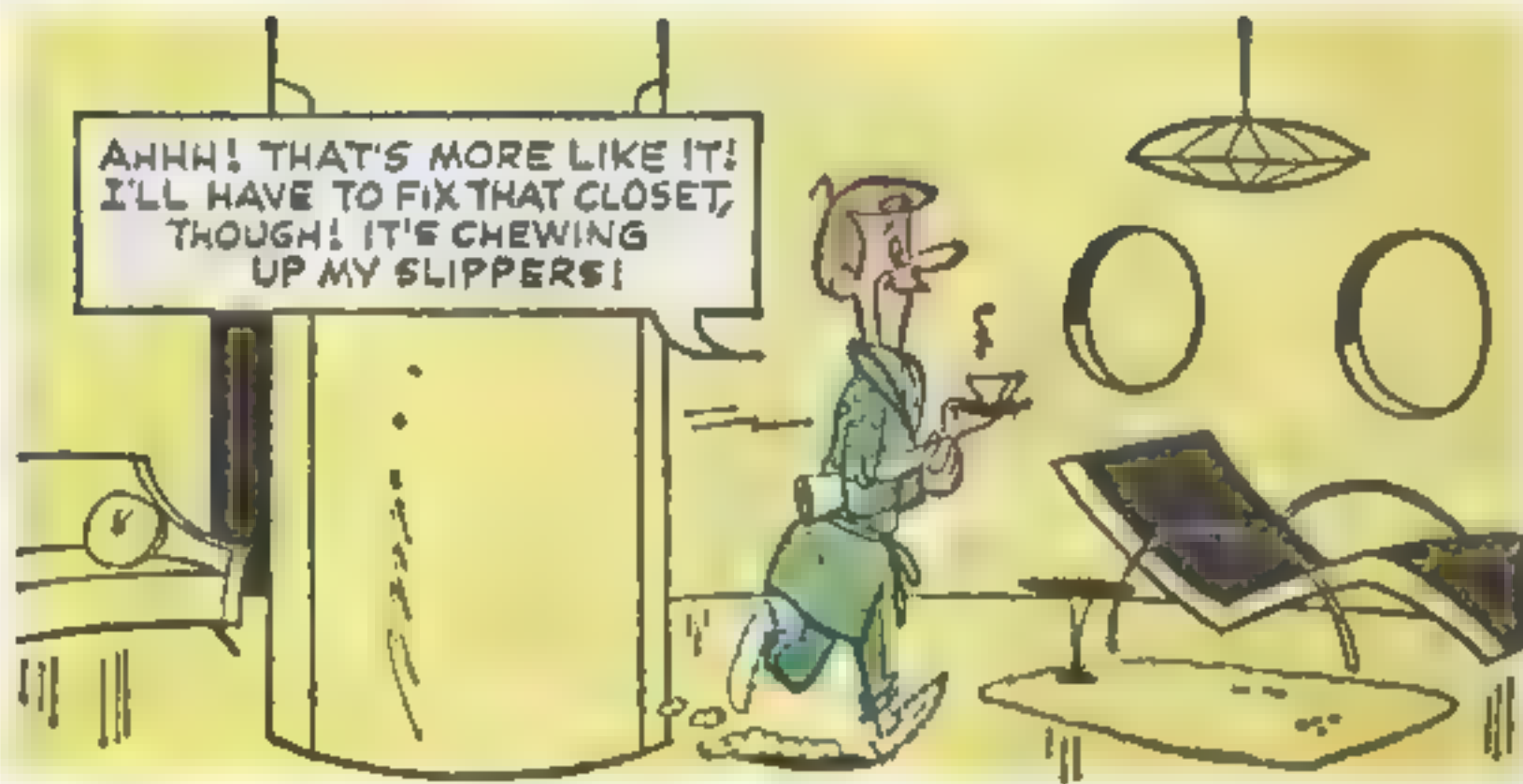
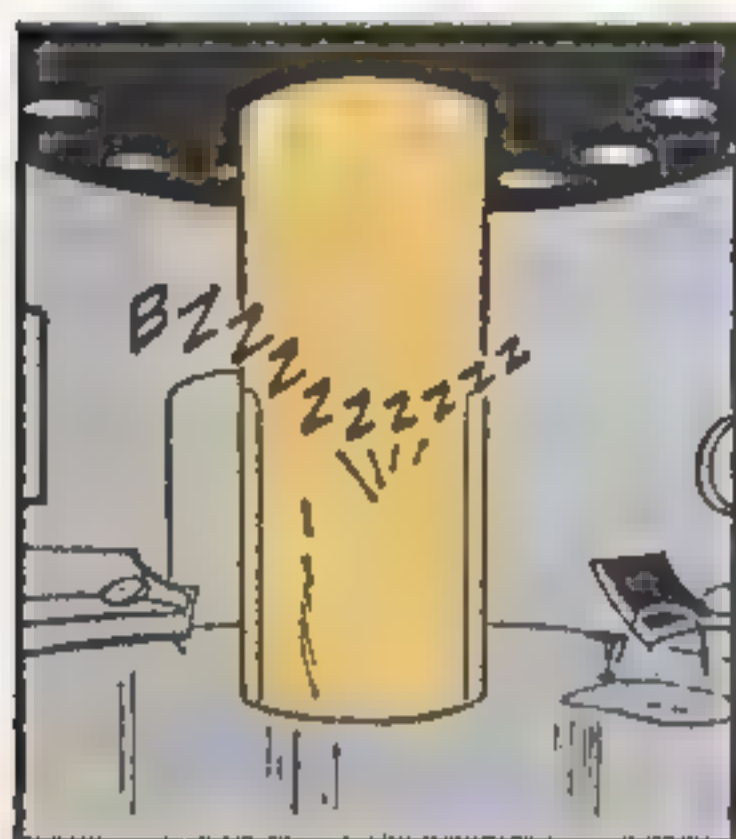
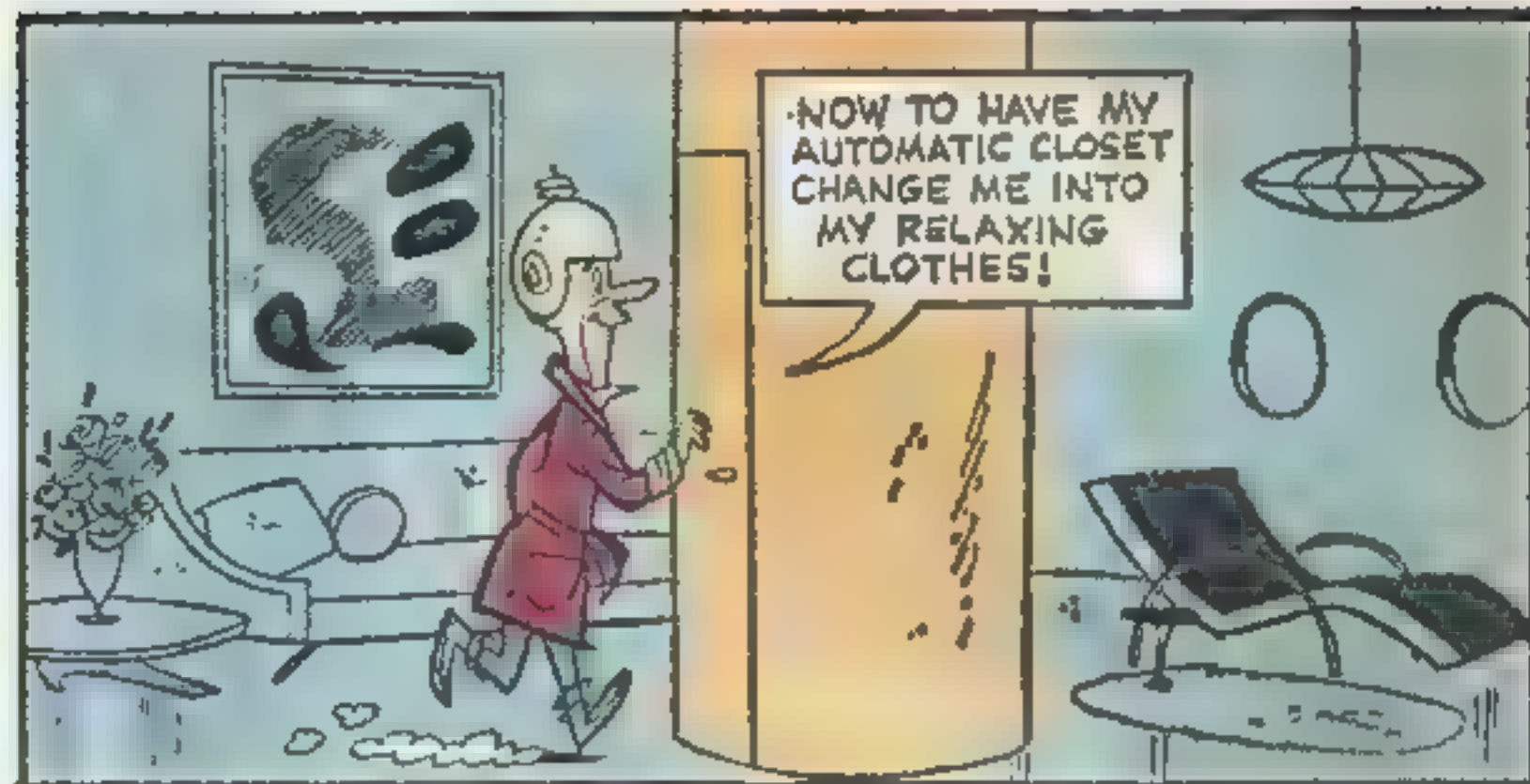


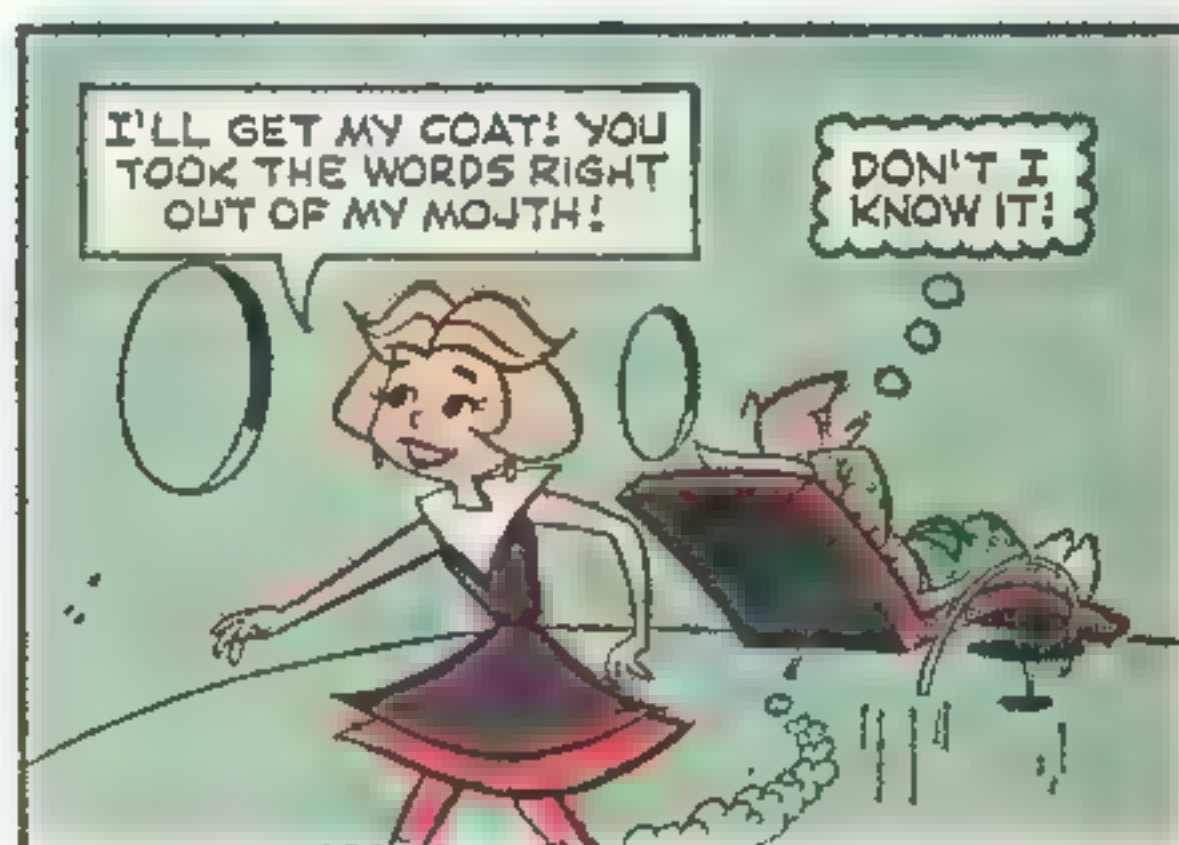
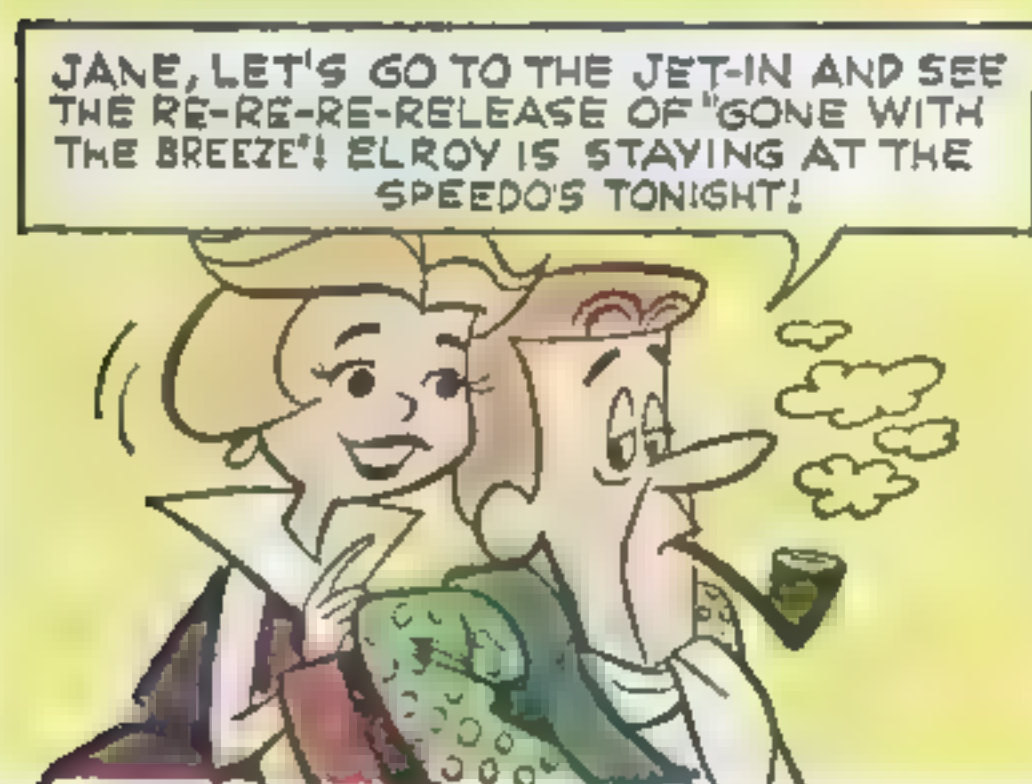
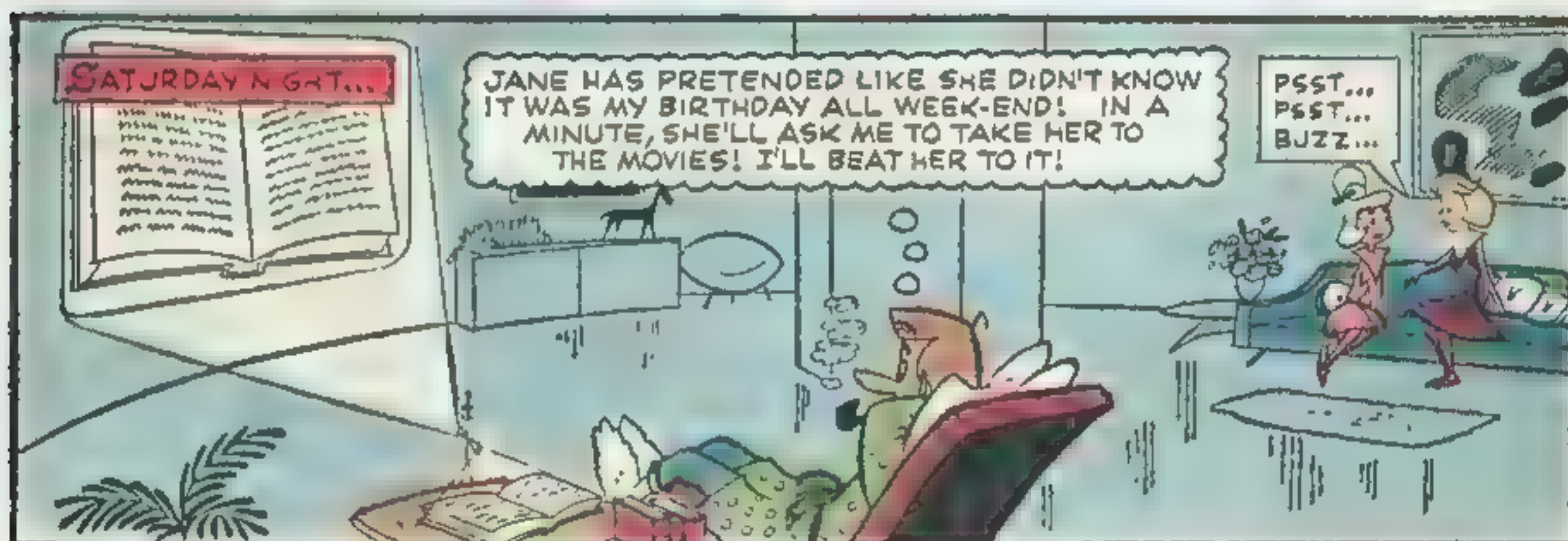
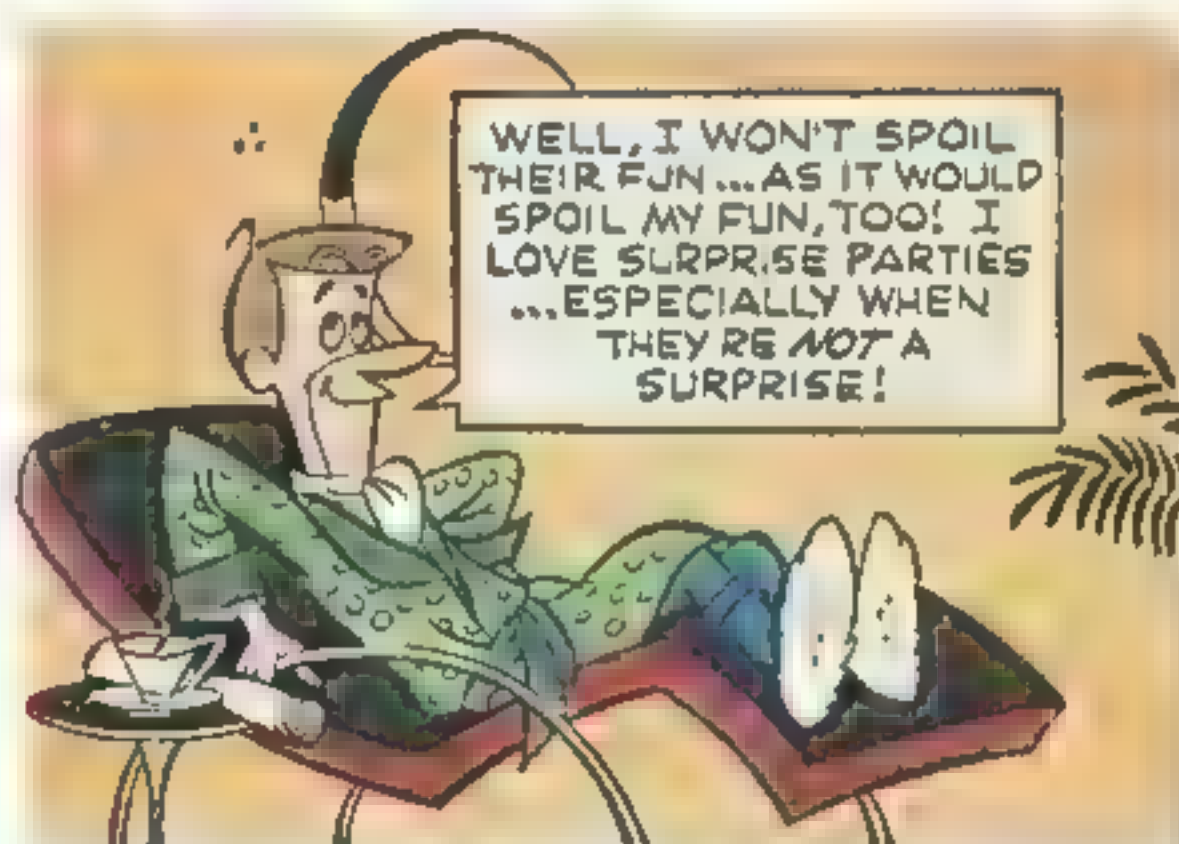
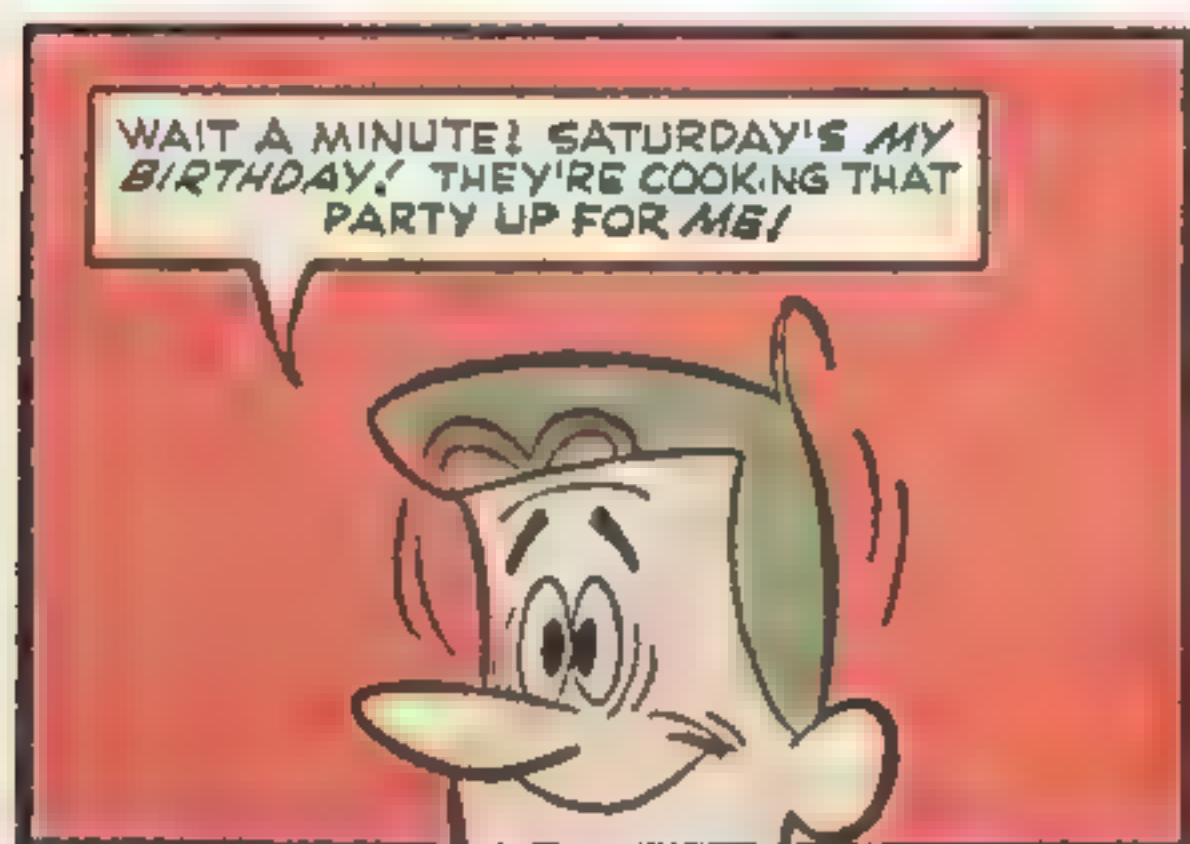
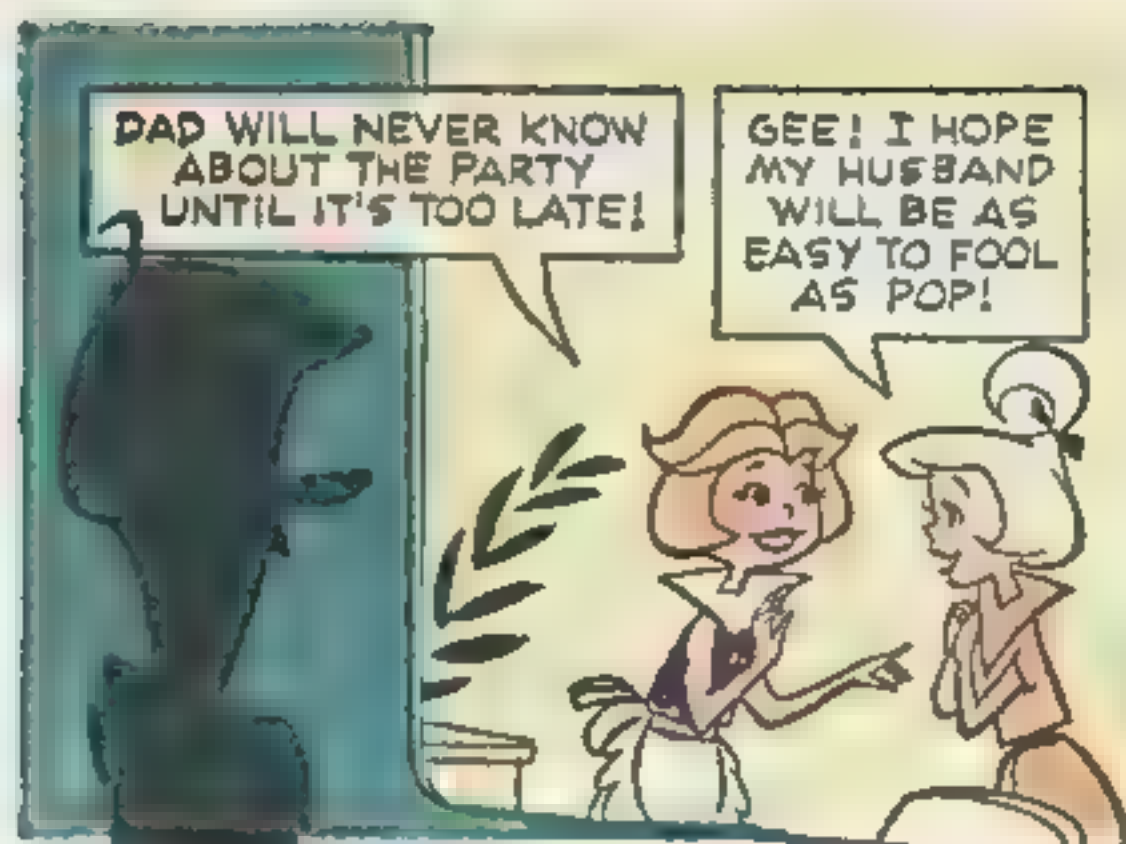


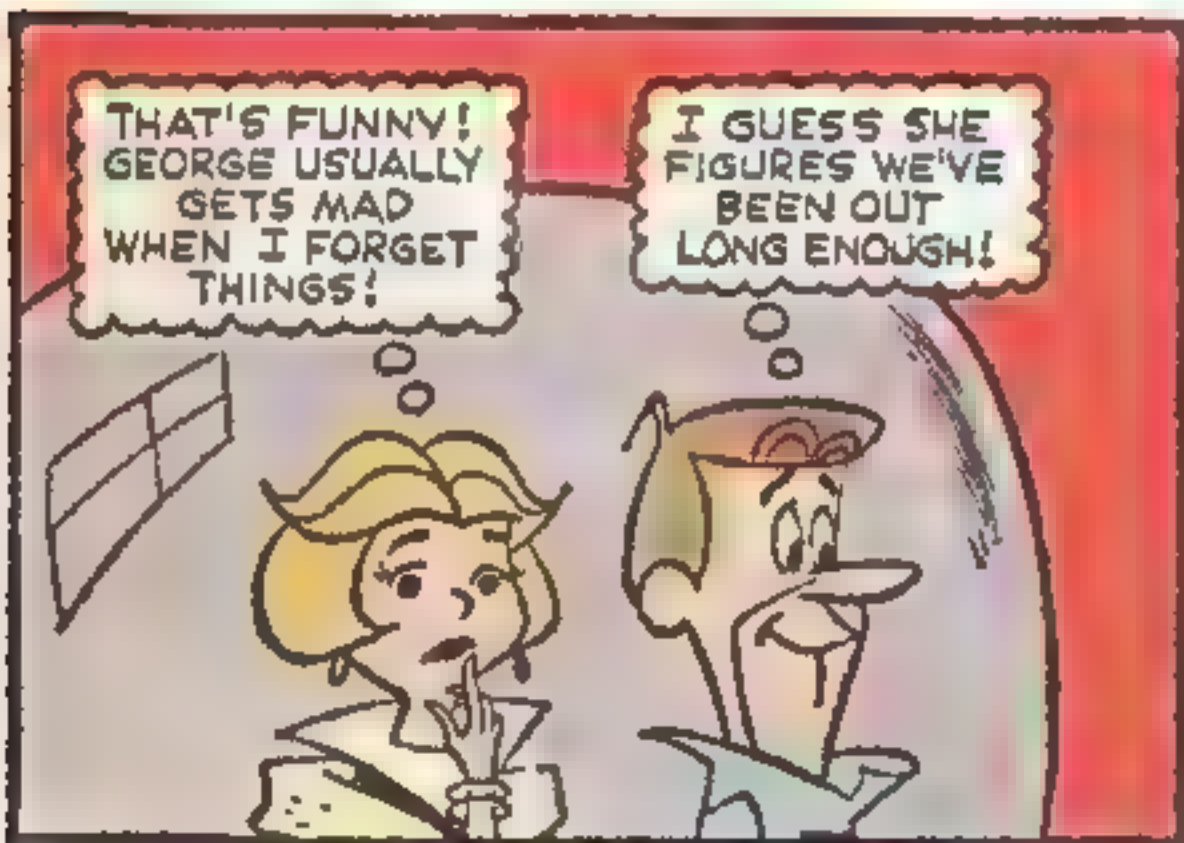
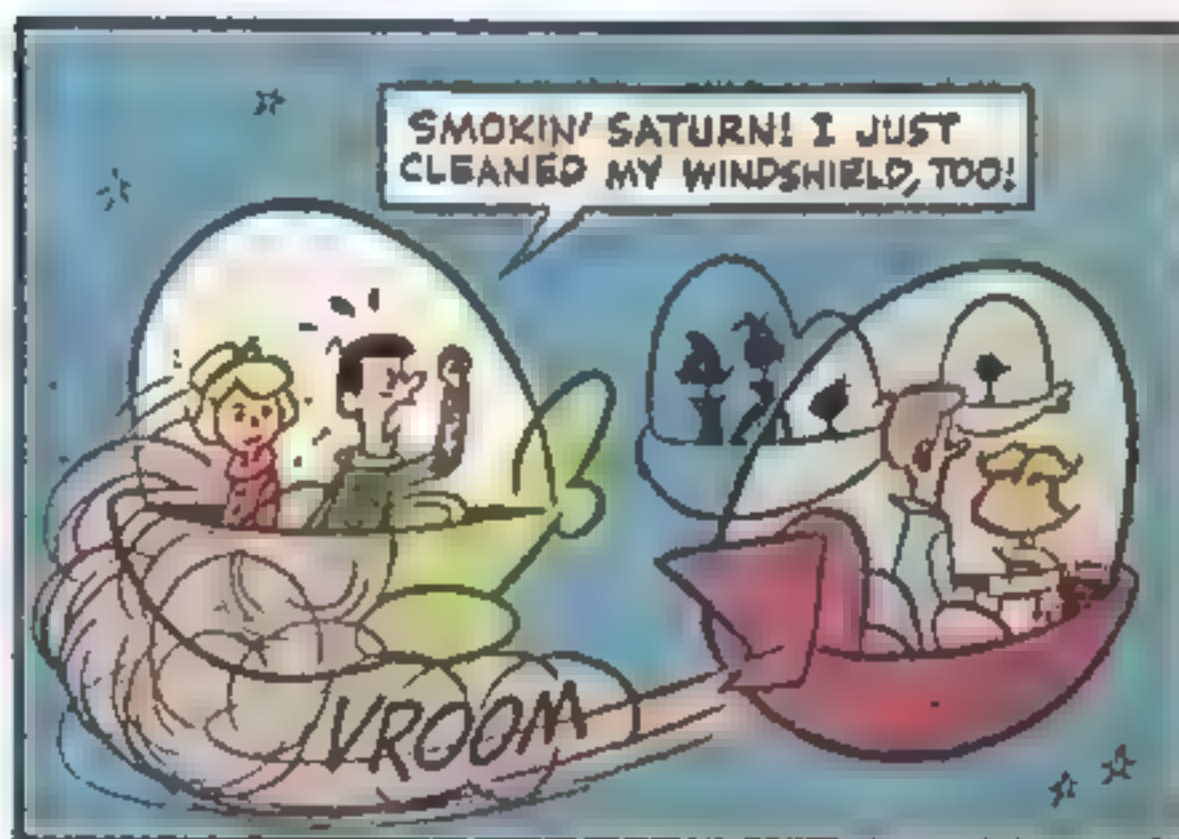
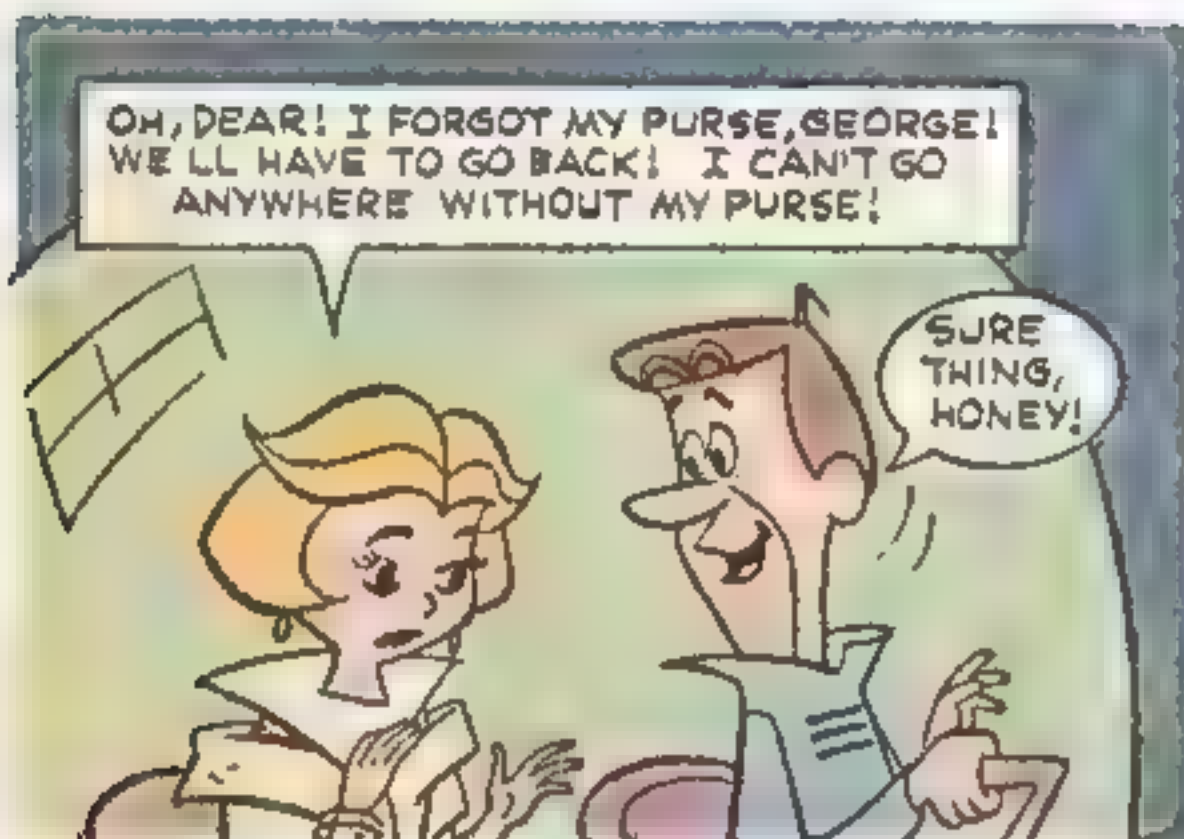
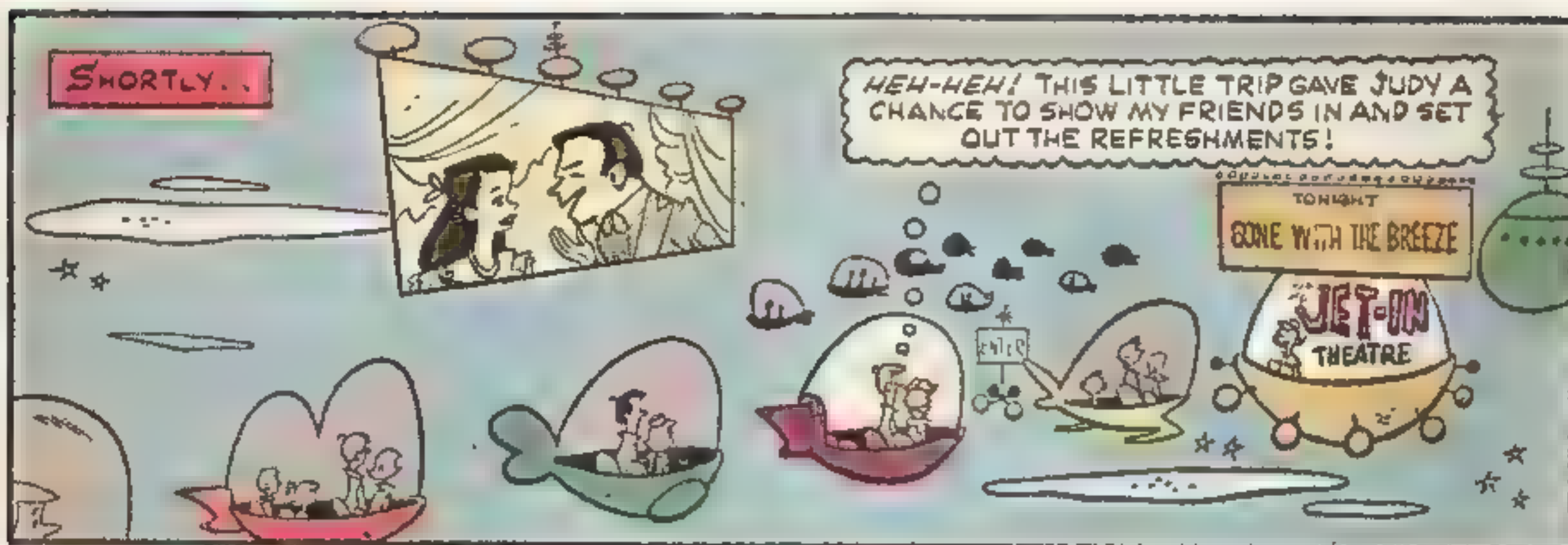
Hanna-Barbera The JETSONS
DEAR OLD DAD

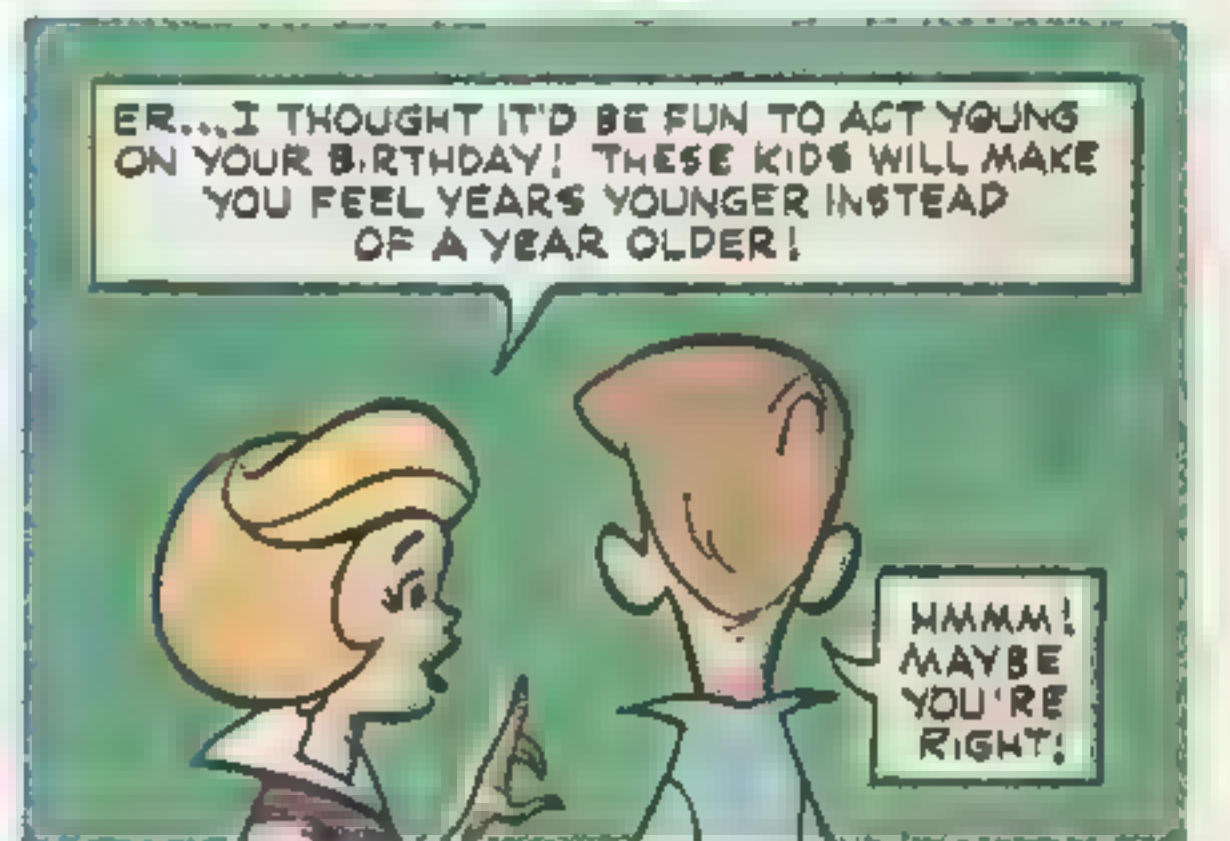
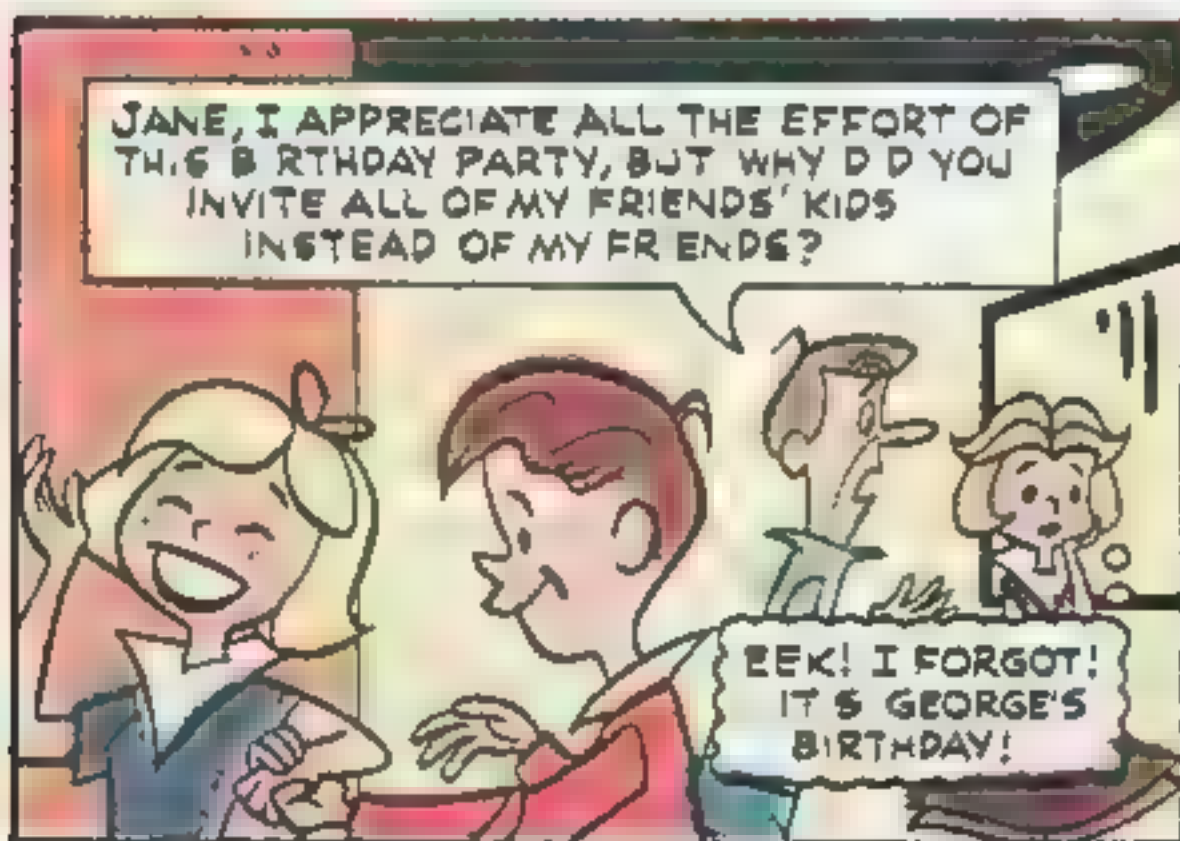
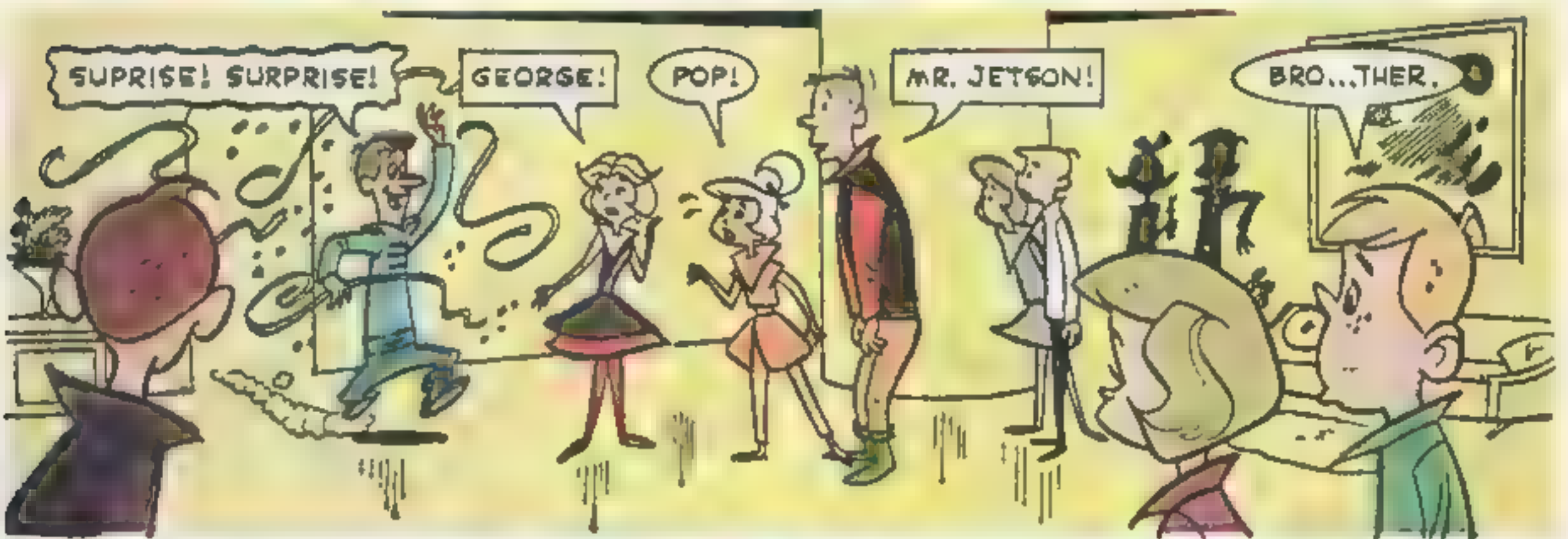
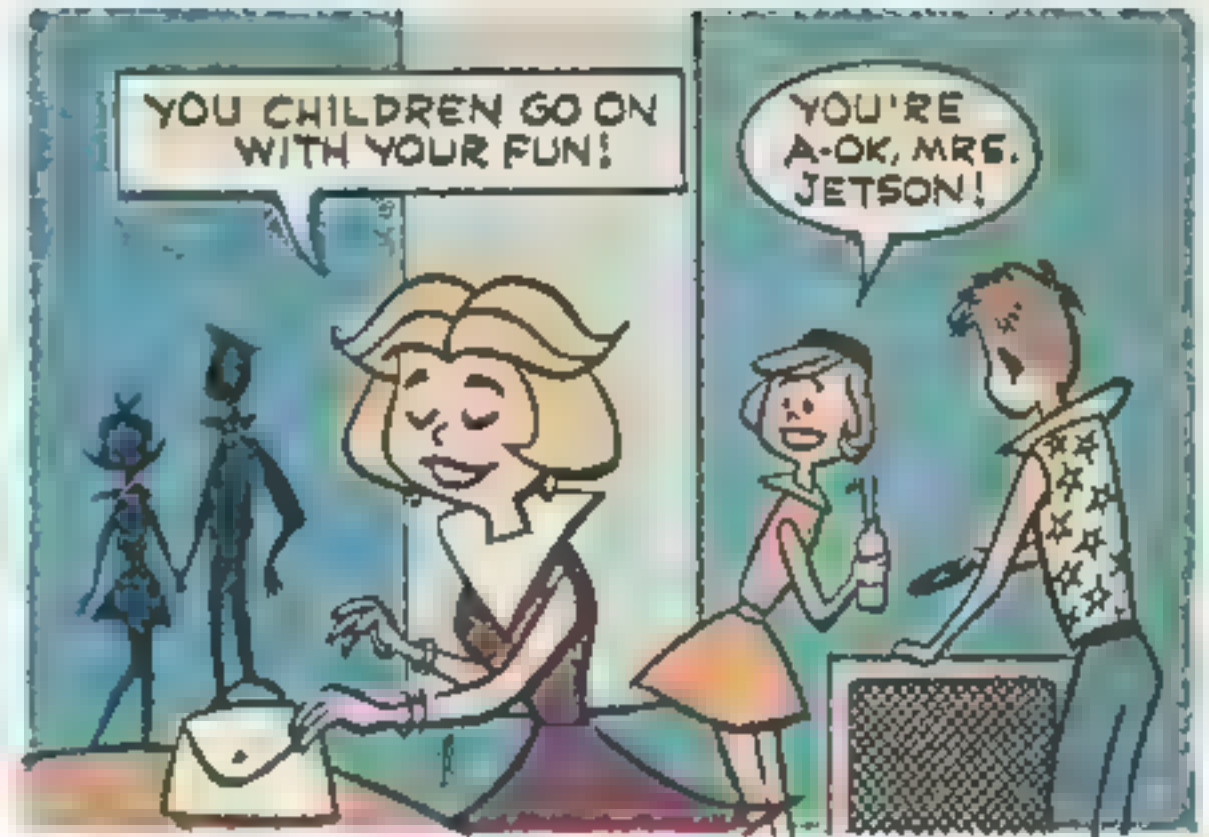
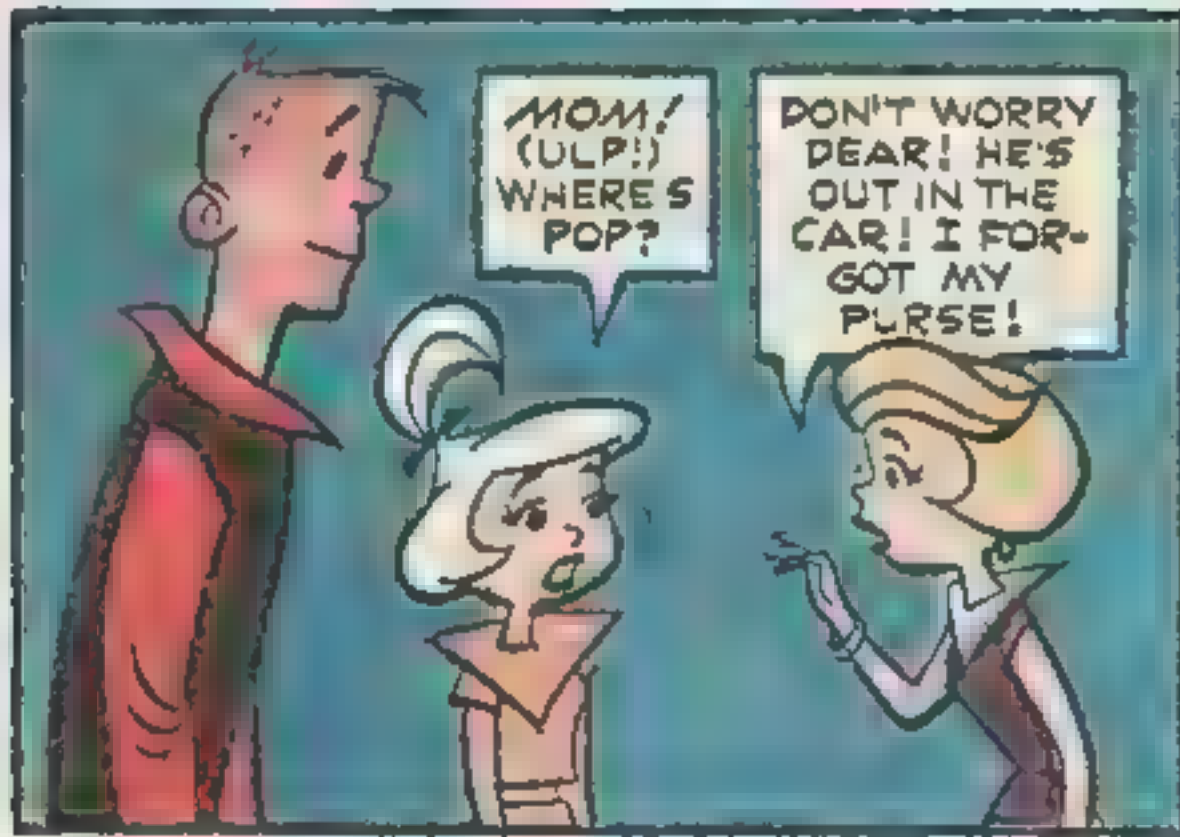




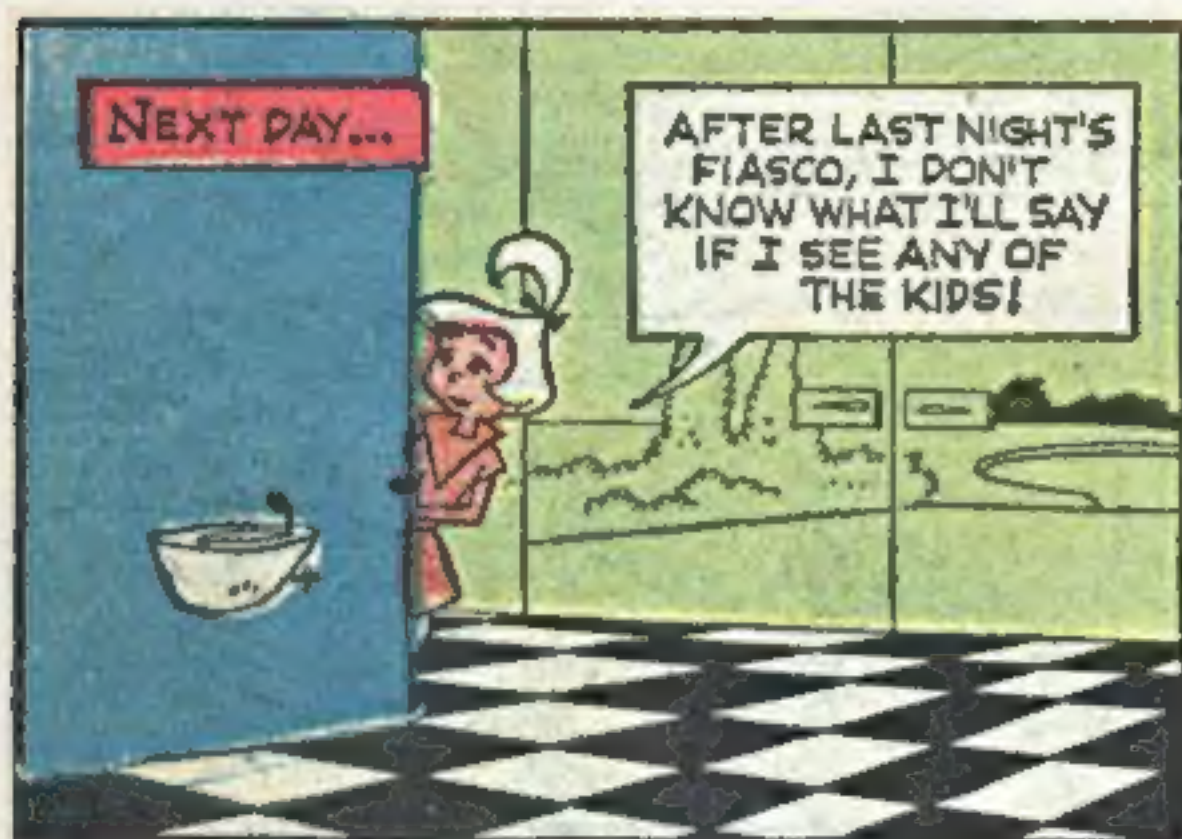








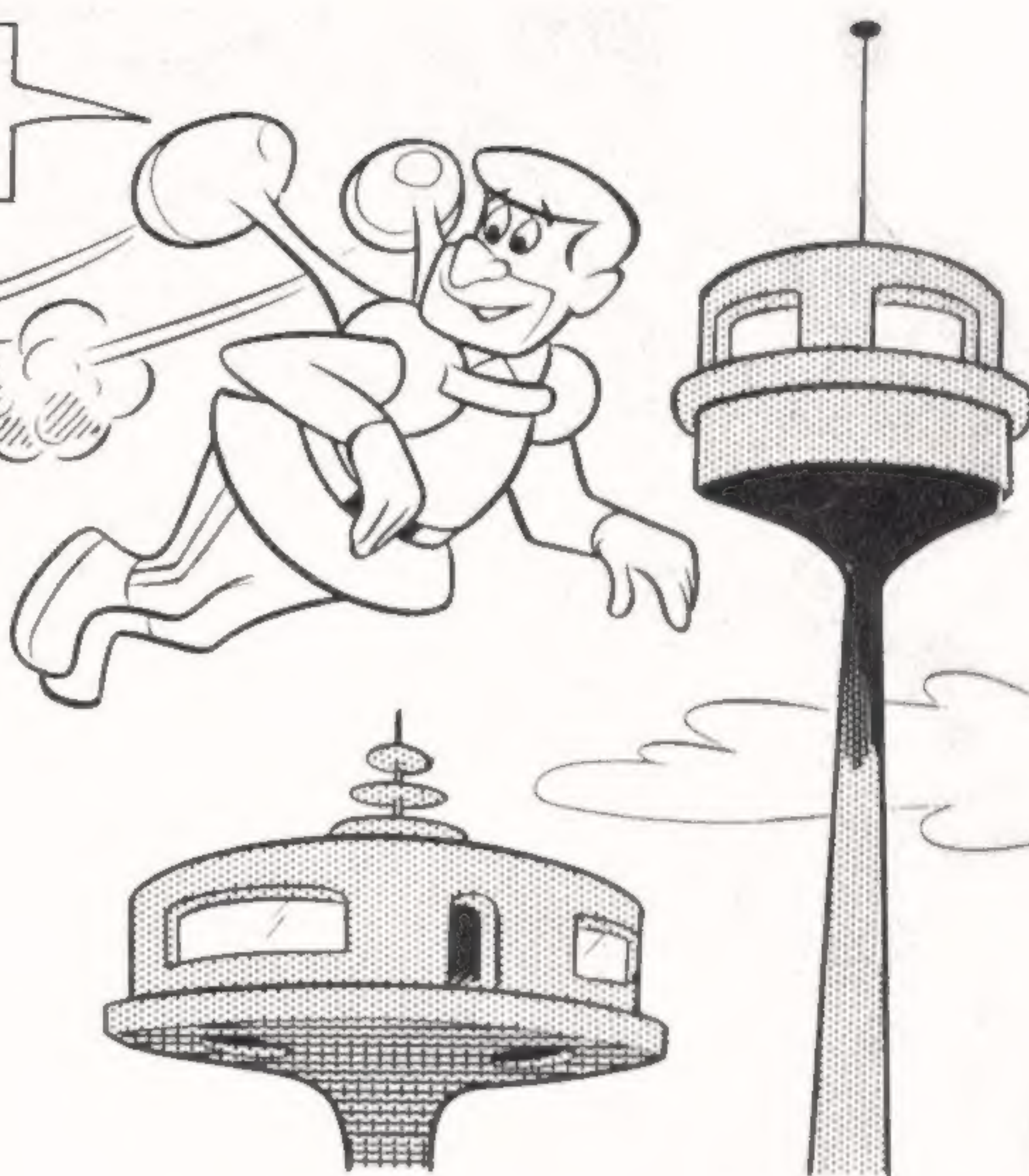
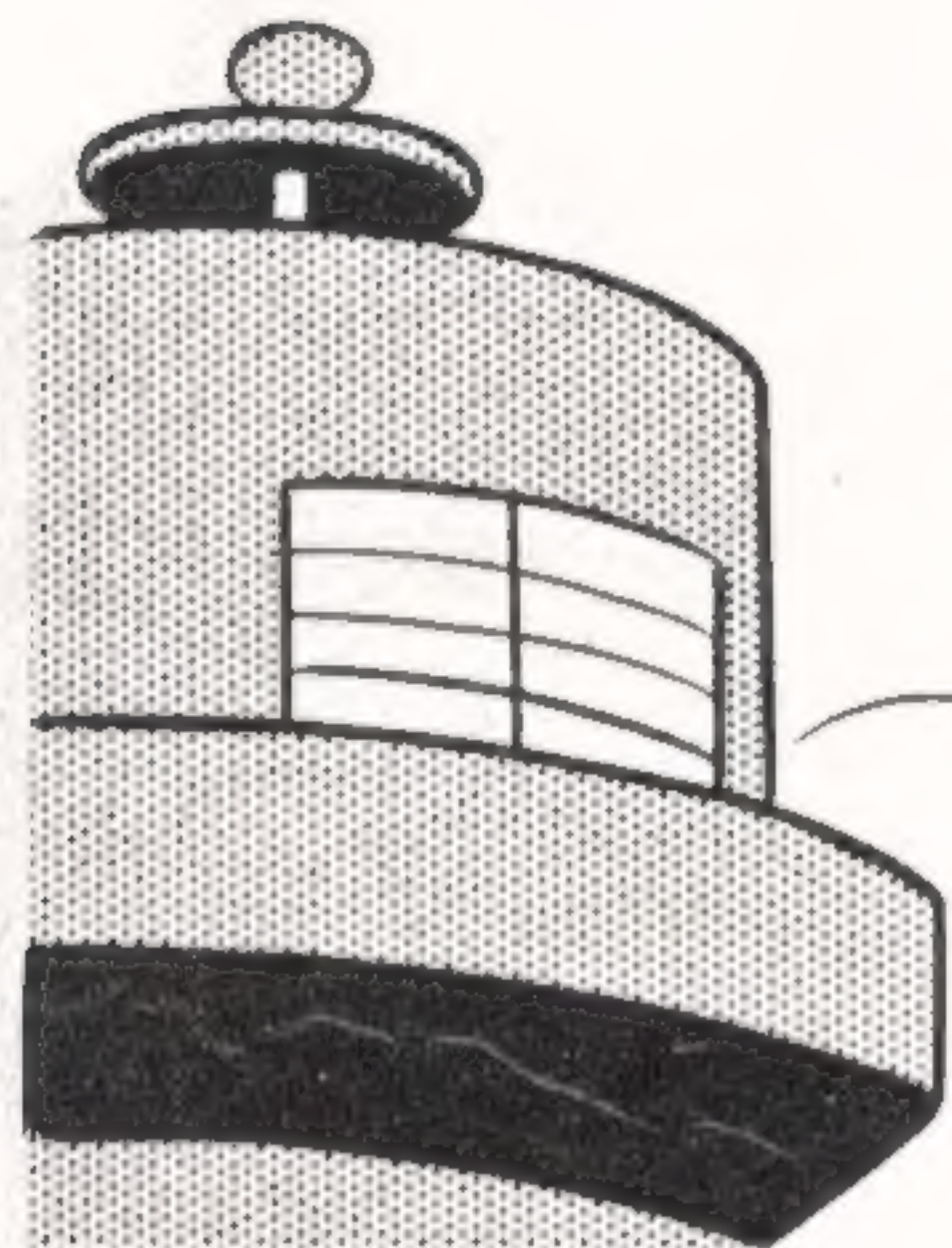




THE JETSONS

HOW DO YOU LIKE
MY NEW SPACE
WINGS, GEORGE?

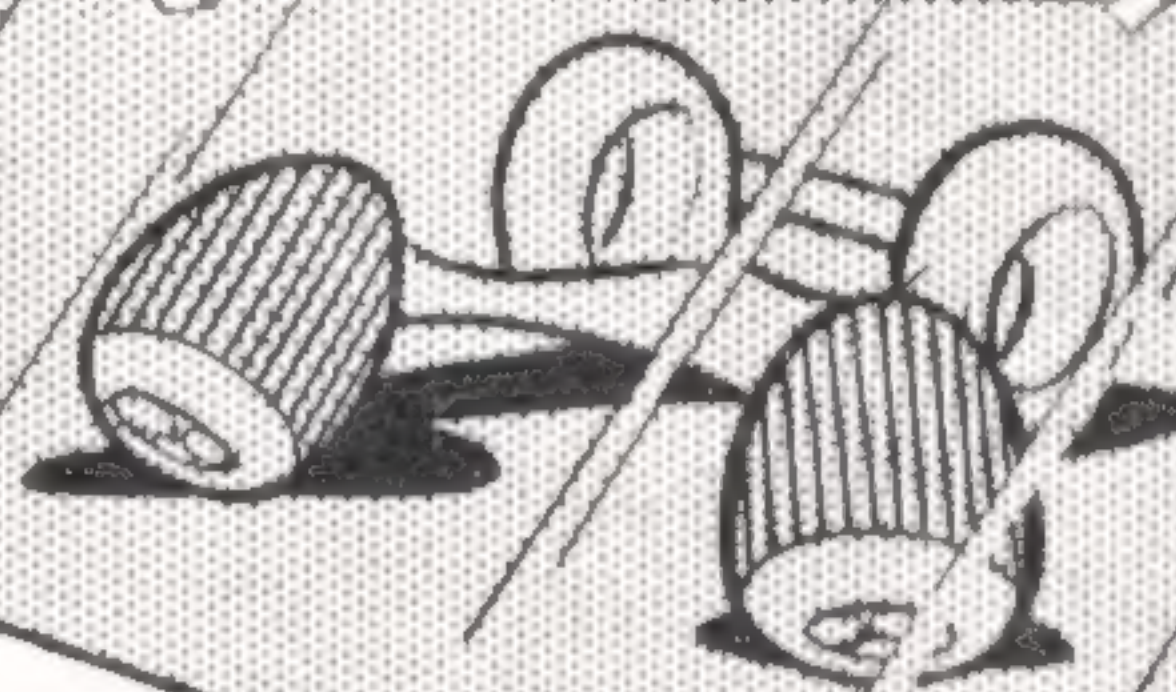
NEAT,
JONES!



I'D LIKE TO KEEP UP
WITH JONES, BUT NEW
SPACE WINGS COST
A MINT!

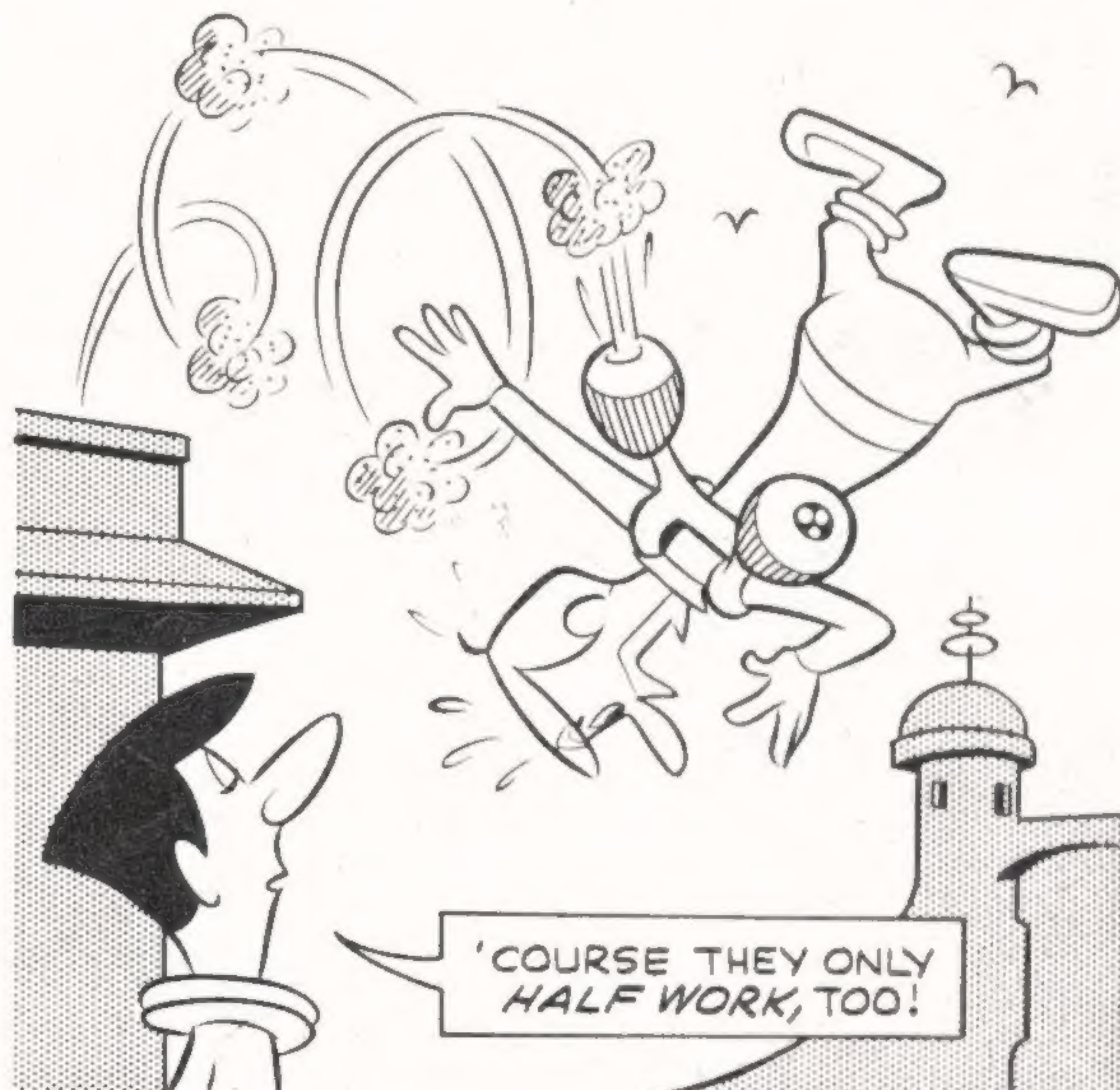
AHH... THIS IS MORE
IN MY RANGE!

USED
SPACE WINGS
1/2 PRICE



HEY! ARE THESE
REALLY
HALF OFF?

YEP!



'COURSE THEY ONLY
HALF WORK, TOO!

THE JETSONS

PIN-UP NO. 1

